

# Mathematik – Klassenarbeit Nr. 3

Klasse 3

Name: \_\_\_\_\_

Von **123** Punkten wurden \_\_\_\_\_ Punkte erreicht      Zensur: \_\_\_\_\_

## 1. Führe folgende Multiplikationen und Divisionen durch!

|                      |                      |                      |                      |
|----------------------|----------------------|----------------------|----------------------|
| $6 \cdot 9 =$ _____  | $7 \cdot 8 =$ _____  | $6 \cdot 5 =$ _____  | $9 \cdot 8 =$ _____  |
| $64 : 8 =$ _____     | $42 : 7 =$ _____     | $36 : 9 =$ _____     | $32 : 8 =$ _____     |
| $12 \cdot 3 =$ _____ | $15 \cdot 2 =$ _____ | $11 \cdot 3 =$ _____ | $14 \cdot 2 =$ _____ |
| $28 : 7 =$ _____     | $72 : 8 =$ _____     | $63 : 7 =$ _____     | $24 : 3 =$ _____     |

16 P

## 2. Führe folgende Additionen und Subtraktionen durch!

|                     |                     |                     |
|---------------------|---------------------|---------------------|
| $600 + 300 =$ _____ | $400 + 500 =$ _____ | $700 + 200 =$ _____ |
| $700 - 200 =$ _____ | $600 - 400 =$ _____ | $900 - 800 =$ _____ |
| $650 + 230 =$ _____ | $540 + 180 =$ _____ | $370 + 480 =$ _____ |
| $560 - 240 =$ _____ | $930 - 530 =$ _____ | $850 - 260 =$ _____ |
| $652 + 250 =$ _____ | $549 + 180 =$ _____ | $395 + 260 =$ _____ |

15 P

## 3. Führe folgende Additionen im schriftlichen Verfahren durch!

|   |   |   |   |    |  |   |   |   |    |   |   |   |   |    |   |   |   |   |    |   |   |   |
|---|---|---|---|----|--|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|
|   | 2 | 8 | 5 | 1P |  | 5 | 7 | 3 | 1P |   | 2 | 4 | 6 | 2P |   | 5 | 3 | 9 | 2P |   |   |   |
| + | 1 | 1 | 4 |    |  | + | 4 | 2 |    | 4 |   | + | 6 |    | 1 | 8 |   | + |    | 3 | 8 | 2 |
|   |   |   |   |    |  |   |   |   |    |   |   |   |   |    |   |   |   |   |    |   |   |   |
|   |   |   |   |    |  |   |   |   |    |   |   |   |   |    |   |   |   |   |    |   |   |   |
|   |   |   |   | 2P |  |   |   |   | 2P |   |   |   |   | 3P |   |   |   |   | 4P |   |   |   |
|   | 4 | 3 | 7 |    |  | 3 | 9 | 6 |    |   | 4 | 4 | 8 |    |   | 3 | 4 | 6 |    |   |   |   |
| + | 2 | 8 | 9 |    |  | + | 9 | 9 |    | 6 |   | + |   |    | 8 | 4 |   | + |    | 4 | 2 | 5 |
|   |   |   |   |    |  |   |   |   |    |   |   | + | 2 |    | 7 | 2 |   | + |    | 2 | 2 | 9 |
|   |   |   |   |    |  |   |   |   |    |   |   |   |   |    |   |   |   |   |    |   |   |   |
|   |   |   |   |    |  |   |   |   |    |   |   |   |   |    |   |   |   |   |    |   |   |   |

**4. Führe folgende Subtraktionen im schriftlichen Verfahren durch!**

|   |   |   |   |    |   |   |   |   |    |   |   |   |   |    |   |   |   |   |    |
|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|
|   | 6 | 4 | 9 | 1P |   | 9 | 8 | 9 | 1P |   | 6 | 5 | 4 | 2P |   | 7 | 9 | 3 | 2P |
| - | 4 | 1 | 8 |    | - | 3 | 6 | 3 |    | - | 3 | 1 | 9 |    | - | 5 | 7 | 9 |    |
|   |   |   |   |    |   |   |   |   |    |   |   |   |   |    |   |   |   |   |    |
|   |   |   |   |    |   |   |   |   |    |   |   |   |   |    |   |   |   |   |    |
|   |   |   |   |    |   |   |   |   |    |   |   |   |   |    |   |   |   |   |    |
|   | 7 | 5 | 1 |    |   | 8 | 8 | 8 |    |   | 7 | 8 | 8 |    |   | 6 | 9 | 6 |    |
| - | 3 | 7 | 8 | 2P | - | 4 | 9 | 9 | 2P | - |   | 4 | 4 | 3P | - | 3 | 2 | 1 | 4P |
|   |   |   |   |    |   |   |   |   |    | - | 1 | 3 | 3 |    | - | 1 | 8 | 8 |    |
|   |   |   |   |    |   |   |   |   |    |   |   |   |   |    |   |   |   |   |    |
|   |   |   |   |    |   |   |   |   |    |   |   |   |   |    |   |   |   |   |    |
|   |   |   |   |    |   |   |   |   |    |   |   |   |   |    |   |   |   |   |    |

17P

**5. Ersetze die fehlenden Zahlen! Beachte das Rechenzeichen!**

|   |   |   |   |    |   |   |   |   |    |   |   |   |   |    |   |   |   |   |    |
|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|---|---|---|---|----|
|   | 5 | 2 | 6 | 2P |   |   | 7 |   | 2P |   |   | 4 | 3 | 3P |   | 1 | 5 |   | 3P |
| + |   | 2 |   |    | + | 4 | 2 | 5 |    | + | 4 |   | 5 |    | + | 4 |   | 0 |    |
|   |   |   |   |    |   |   |   |   |    |   |   |   |   |    |   |   |   |   |    |
|   | 8 | 4 | 9 |    |   | 8 | 9 | 8 |    |   | 6 | 7 |   |    |   |   | 9 | 9 |    |
|   |   |   |   |    |   |   |   |   |    |   |   |   |   |    |   |   |   |   |    |
|   | 6 | 5 | 3 |    |   |   | 8 |   |    |   |   | 8 | 8 |    |   | 6 | 9 |   |    |
| - |   | 2 |   | 2P | - | 5 | 2 | 3 | 2P | - | 4 |   | 6 | 3P | - | 4 |   | 2 | 3P |
|   |   |   |   |    |   |   |   |   |    |   |   |   |   |    |   |   |   |   |    |
|   | 3 | 3 | 2 |    |   | 3 | 6 | 5 |    |   | 3 | 3 |   |    |   |   | 4 | 4 |    |
|   |   |   |   |    |   |   |   |   |    |   |   |   |   |    |   |   |   |   |    |

20P

**6. Schreibe die folgenden Zahlen stellengerecht untereinander und berechne die Summe!**

$$532 + 98 + 9 + 123 + 44 + 81 =$$

|   |   |   |   |
|---|---|---|---|
|   | 5 | 3 | 2 |
| + |   |   |   |
| + |   |   |   |
| + |   |   |   |
| + |   |   |   |
| + |   |   |   |
|   |   |   |   |
|   |   |   |   |

4P

7. a) Ordne folgende Begriffe bzw. Rechenzeichen zu!

|                |         |       |          |           |
|----------------|---------|-------|----------|-----------|
| Rechenzeichen: | -       | +     | •        | :         |
| Begriffe:      | Produkt | Summe | Quotient | Differenz |

b) Gib für jede Rechenart ein einfaches Beispiel an!

| Rechenart      | Rechenzeichen | Begriff | Beispiel |
|----------------|---------------|---------|----------|
| Addition       |               |         |          |
| Multiplikation |               |         |          |
| Subtraktion    |               |         |          |
| Division       |               |         |          |

8P

8. Schreibe die folgende Textaufgabe als Rechenaufgabe und berechne sie!

Bilde die Summe aus den Zahlen 200 und 800.

3P

Bilde die Differenz aus den Zahlen 500 und 300.

3P

Bilde das Produkt aus den Zahlen 8 und 9.

3P

Bilde den Quotienten aus den Zahlen 81 und 9.

3P





4. Führe folgende Subtraktionen im schriftlichen Verfahren durch!

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
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| <table> <tr><td></td><td>6</td><td>4</td><td>9</td></tr> <tr><td>-</td><td>4</td><td>1</td><td>8</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td>2</td><td>3</td><td>1</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td>7</td><td>5</td><td>1</td></tr> <tr><td>-</td><td>3</td><td>7</td><td>8</td></tr> <tr><td></td><td>1</td><td>1</td><td></td></tr> <tr><td></td><td>3</td><td>7</td><td>3</td></tr> <tr><td></td><td></td><td></td><td></td></tr> </table> |   | 6 | 4 | 9 | - | 4 | 1 | 8 |  |  |  |  |  | 2 | 3 | 1 |  |  |  |  |  | 7 | 5 | 1 | - | 3 | 7 | 8 |  | 1 | 1 |  |  | 3 | 7 | 3 |  |  |  |  | <table> <tr><td></td><td>9</td><td>8</td><td>9</td></tr> <tr><td>-</td><td>3</td><td>6</td><td>3</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td>6</td><td>2</td><td>6</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td>8</td><td>8</td><td>8</td></tr> <tr><td>-</td><td>4</td><td>9</td><td>9</td></tr> <tr><td></td><td>1</td><td>1</td><td></td></tr> <tr><td></td><td>3</td><td>8</td><td>9</td></tr> <tr><td></td><td></td><td></td><td></td></tr> </table> |  | 9 | 8 | 9 | - | 3 | 6 | 3 |  |  |  |  |  | 6 | 2 | 6 |  |  |  |  |  | 8 | 8 | 8 | - | 4 | 9 | 9 |  | 1 | 1 |  |  | 3 | 8 | 9 |  |  |  |  | <table> <tr><td></td><td>6</td><td>5</td><td>4</td></tr> <tr><td>-</td><td>3</td><td>1</td><td>9</td></tr> <tr><td></td><td></td><td>1</td><td></td></tr> <tr><td></td><td>3</td><td>3</td><td>5</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td>7</td><td>8</td><td>8</td></tr> <tr><td>-</td><td></td><td>4</td><td>4</td></tr> <tr><td>-</td><td>1</td><td>3</td><td>3</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td>6</td><td>1</td><td>1</td></tr> <tr><td></td><td></td><td></td><td></td></tr> </table> |  | 6 | 5 | 4 | - | 3 | 1 | 9 |  |  | 1 |  |  | 3 | 3 | 5 |  |  |  |  |  | 7 | 8 | 8 | - |  | 4 | 4 | - | 1 | 3 | 3 |  |  |  |  |  | 6 | 1 | 1 |  |  |  |  | <table> <tr><td></td><td>7</td><td>9</td><td>3</td></tr> <tr><td>-</td><td>5</td><td>7</td><td>9</td></tr> <tr><td></td><td></td><td>1</td><td></td></tr> <tr><td></td><td>2</td><td>1</td><td>4</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td>6</td><td>9</td><td>6</td></tr> <tr><td>-</td><td>3</td><td>2</td><td>1</td></tr> <tr><td>-</td><td>1</td><td>8</td><td>8</td></tr> <tr><td></td><td>1</td><td>1</td><td></td></tr> <tr><td></td><td>1</td><td>8</td><td>7</td></tr> <tr><td></td><td></td><td></td><td></td></tr> </table> |  | 7 | 9 | 3 | - | 5 | 7 | 9 |  |  | 1 |  |  | 2 | 1 | 4 |  |  |  |  |  | 6 | 9 | 6 | - | 3 | 2 | 1 | - | 1 | 8 | 8 |  | 1 | 1 |  |  | 1 | 8 | 7 |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6 | 4 | 9 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4 | 1 | 8 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2 | 3 | 1 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 7 | 5 | 1 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3 | 7 | 8 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1 | 1 |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3 | 7 | 3 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 9 | 8 | 9 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3 | 6 | 3 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6 | 2 | 6 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 8 | 8 | 8 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4 | 9 | 9 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1 | 1 |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3 | 8 | 9 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6 | 5 | 4 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3 | 1 | 9 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   | 1 |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3 | 3 | 5 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 7 | 8 | 8 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   | 4 | 4 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1 | 3 | 3 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6 | 1 | 1 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 7 | 9 | 3 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5 | 7 | 9 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   | 1 |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2 | 1 | 4 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6 | 9 | 6 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3 | 2 | 1 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1 | 8 | 8 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1 | 1 |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1 | 8 | 7 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |   |   |   |   |   |  |  |   |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |   |   |  |   |   |  |  |   |   |   |  |  |  |  |
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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|--|--|--|--|--|---|---|---|--|--|--|--|--|---|---|---|---|---|---|---|--|--|--|--|--|---|---|---|--|--|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---|---|---|---|---|---|---|--|--|--|--|--|---|---|---|--|--|--|--|--|---|---|---|---|---|---|---|--|--|--|--|--|---|---|---|--|--|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---|---|---|---|---|---|---|--|--|--|--|--|---|---|---|--|--|--|--|--|---|---|---|---|---|---|---|--|--|--|--|--|---|---|---|--|--|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---|---|---|---|---|---|---|--|--|--|--|--|---|---|---|--|--|--|--|--|---|---|---|---|---|---|---|--|--|--|--|--|---|---|---|--|--|--|--|
| <table> <tr><td></td><td>5</td><td>2</td><td>6</td></tr> <tr><td>+</td><td>3</td><td>2</td><td>3</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td>8</td><td>4</td><td>9</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td>6</td><td>5</td><td>3</td></tr> <tr><td>-</td><td>3</td><td>2</td><td>1</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td>3</td><td>3</td><td>2</td></tr> <tr><td></td><td></td><td></td><td></td></tr> </table> |   | 5 | 2 | 6 | + | 3 | 2 | 3 |  |  |  |  |  | 8 | 4 | 9 |  |  |  |  |  | 6 | 5 | 3 | - | 3 | 2 | 1 |  |  |  |  |  | 3 | 3 | 2 |  |  |  |  | <table> <tr><td></td><td>4</td><td>7</td><td>3</td></tr> <tr><td>+</td><td>4</td><td>2</td><td>5</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td>8</td><td>9</td><td>8</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td>8</td><td>8</td><td>8</td></tr> <tr><td>-</td><td>5</td><td>2</td><td>3</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td>3</td><td>6</td><td>5</td></tr> <tr><td></td><td></td><td></td><td></td></tr> </table> |  | 4 | 7 | 3 | + | 4 | 2 | 5 |  |  |  |  |  | 8 | 9 | 8 |  |  |  |  |  | 8 | 8 | 8 | - | 5 | 2 | 3 |  |  |  |  |  | 3 | 6 | 5 |  |  |  |  | <table> <tr><td></td><td>2</td><td>4</td><td>3</td></tr> <tr><td>+</td><td>4</td><td>3</td><td>5</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td>6</td><td>7</td><td>8</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td>7</td><td>8</td><td>8</td></tr> <tr><td>-</td><td>4</td><td>5</td><td>6</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td>3</td><td>3</td><td>2</td></tr> <tr><td></td><td></td><td></td><td></td></tr> </table> |  | 2 | 4 | 3 | + | 4 | 3 | 5 |  |  |  |  |  | 6 | 7 | 8 |  |  |  |  |  | 7 | 8 | 8 | - | 4 | 5 | 6 |  |  |  |  |  | 3 | 3 | 2 |  |  |  |  | <table> <tr><td></td><td>1</td><td>5</td><td>9</td></tr> <tr><td>+</td><td>4</td><td>4</td><td>0</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td>5</td><td>9</td><td>9</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td>6</td><td>9</td><td>6</td></tr> <tr><td>-</td><td>4</td><td>5</td><td>2</td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td>2</td><td>4</td><td>4</td></tr> <tr><td></td><td></td><td></td><td></td></tr> </table> |  | 1 | 5 | 9 | + | 4 | 4 | 0 |  |  |  |  |  | 5 | 9 | 9 |  |  |  |  |  | 6 | 9 | 6 | - | 4 | 5 | 2 |  |  |  |  |  | 2 | 4 | 4 |  |  |  |  |
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| +                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3 | 2 | 3 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6 | 5 | 3 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3 | 3 | 2 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4 | 7 | 3 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
| +                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4 | 2 | 5 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8 | 9 | 8 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8 | 8 | 8 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5 | 2 | 3 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3 | 6 | 5 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2 | 4 | 3 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
| +                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4 | 3 | 5 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6 | 7 | 8 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 7 | 8 | 8 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4 | 5 | 6 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3 | 3 | 2 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1 | 5 | 9 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
| +                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4 | 4 | 0 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5 | 9 | 9 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6 | 9 | 6 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4 | 5 | 2 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2 | 4 | 4 |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |  |  |  |  |

20P

6. Schreibe die folgenden Zahlen stellengerecht unter einander und berechne die Summe!

$$532 + 98 + 9 + 123 + 44 + 81 =$$

|   |   |   |   |
|---|---|---|---|
|   | 5 | 3 | 2 |
| + |   | 9 | 8 |
| + |   |   | 9 |
| + | 1 | 2 | 3 |
| + |   | 4 | 4 |
| + |   | 8 | 1 |
|   | 2 | 2 |   |
|   | 8 | 8 | 7 |

4P

7. a) Ordne folgende Begriffe bzw. Rechenzeichen zu!

|                |         |       |          |           |
|----------------|---------|-------|----------|-----------|
| Rechenzeichen: | -       | +     | •        | :         |
| Begriffe:      | Produkt | Summe | Quotient | Differenz |

b) Gib für jede Rechenart ein einfaches Beispiel an!

| Rechenart      | Rechenzeichen | Begriff   | Beispiel         |
|----------------|---------------|-----------|------------------|
| Addition       | +             | Summe     | $5 + 5 = 10$     |
| Multiplikation | •             | Produkt   | $5 \cdot 5 = 25$ |
| Subtraktion    | -             | Differenz | $5 - 4 = 1$      |
| Division       | :             | Quotient  | $6 : 3 = 2$      |

8P

8. Schreibe die folgende Textaufgabe als Rechenaufgabe und berechne sie!

Bilde die Summe aus den Zahlen 200 und 800.

$$200 + 800 = 1000$$

3P

Bilde die Differenz aus den Zahlen 500 und 300.

$$500 - 300 = 200$$

3P

Bilde das Produkt aus den Zahlen 8 und 9.

$$8 \cdot 9 = 72$$

3P

Bilde den Quotienten aus den Zahlen 81 und 9.

$$81 : 9 = 9$$

3P

9. Rechne möglichst vorteilhaft. Stelle die einzelnen Zahlen so um, dass du möglichst schnell und leicht rechnen kannst! Schreibe die neue Anordnung auf!

$$15 + 25 + 87 + 75 + 13 + 85 = 15 + 85 + 25 + 75 + 87 + 13 = 300 \quad 4P$$

$$150 + 425 + 87 + 75 + 113 + 150 = 150 + 150 + 425 + 75 + 87 + 113 = 1000 \quad 4P$$

$$800 - 120 - 130 - 40 - 60 - 70 - 80 = 800 - 120 - 80 - 130 - 70 - 40 - 60 = 300 \quad 4P$$

10. Nikolaus möchte von seinem gesparten Geld im nächsten Jahr ein neues Fahrrad kaufen.

Das Fahrrad ist mit einem Betrag von 495 € ausgezeichnet.

Zurzeit hat er 250 € gespart, sein Großvater gibt 120 € dazu.

Den Rest will sein Vater zahlen.

Frage: **Wie viel zahlt sein Vater?**

Rechnung:

|  |  |  |  |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|---|---|---|---|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |   | 4 | 9 | 5 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | - | 2 | 5 | 0 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | - | 1 | 2 | 0 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | - | - | - | - |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |   | 1 | 2 | 5 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |   |   |   |   |  |  |  |  |  |  |  |  |  |  |

Antwort: **Sein Vater zahlt 125 Euro.**

5P



Viel Erfolg!

|           |           |           |          |         |         |        |
|-----------|-----------|-----------|----------|---------|---------|--------|
| Punktzahl | 123 - 117 | 116 - 101 | 100 - 81 | 80 - 61 | 60 - 31 | 30 - 0 |
| Zensur    | 1         | 2         | 3        | 4       | 5       | 6      |