

### 1. Aufgabe: Addieren

a)  $114 + 27 =$

b)  $274 + 49 =$

$$\begin{array}{r} 114 \\ + 27 \\ \hline 141 \end{array}$$

$$\begin{array}{r} 274 \\ + 49 \\ \hline 323 \end{array}$$

### 2. Aufgabe: Subtrahieren (leicht)

a)  $97 - 26 =$

b)  $123 - 49 =$

$$\begin{array}{r} 97 \\ - 26 \\ \hline 71 \end{array}$$

$$\begin{array}{r} 123 \\ - 49 \\ \hline 74 \end{array}$$

$$\begin{array}{r} 0 \quad 11 \quad 13 \\ 123 \\ - 49 \\ \hline 74 \end{array}$$

$$\begin{aligned} a - b &= 1 \cdot (a - b) \\ &= (-1) \cdot (-1) \cdot (a - b) \\ &= (-1) \cdot ((-1) \cdot a - (-1) \cdot b) \\ &= (-1) \cdot (-a + b) = -(b - a) \end{aligned}$$

### 3. Aufgabe: Subtrahieren (fortgeschritten)

a)  $12 - 27 =$

b)  $97 - 126 =$

$$\begin{aligned} 12 - 27 &= -(27 - 12) = -(15) \\ &= -15 \end{aligned}$$

$$\begin{array}{r} 27 \\ - 12 \\ \hline 15 \end{array}$$

$$\begin{aligned} 97 - 126 &= -(126 - 97) = -(29) \\ &= -29 \end{aligned}$$

$$\begin{array}{r} 126 \\ - 97 \\ \hline 29 \end{array}$$

### 4. Aufgabe: Multiplizieren

a)  $12 \cdot 27 =$

b)  $97 \cdot 123 =$

$$\begin{array}{r} 12 \cdot 27 \\ 240 \\ 84 \\ \hline 324 \end{array}$$

$$\begin{array}{r} 97 \cdot 123 \\ 3900 \\ 1940 \\ 2910 \\ \hline 11931 \end{array}$$

$$\begin{array}{r} 12 \cdot 27 \\ 240 \\ 84 \\ \hline 324 \end{array}$$

$$\begin{aligned} 12 \cdot 7 &= (10 + 2) \cdot 7 \\ &= 70 + 14 \\ &= 84 \\ &= 12 \cdot (5 + 2) \\ &= 12 \cdot 5 + 12 \cdot 2 \\ &= 60 + 24 = 84 \end{aligned}$$

### 5. Aufgabe: Dividieren (leicht)

a)  $512 \div 8 = 64$

b)  $117 \div 9 =$

$$\begin{array}{r} 64 \\ 8 \overline{) 512} \\ \underline{-0} \phantom{00} \\ 51 \phantom{0} \\ \underline{-48} \phantom{0} \\ 32 \\ \underline{-32} \\ 0 \end{array}$$

$$\begin{array}{r} 13 \\ 9 \overline{) 117} \\ \underline{-0} \phantom{00} \\ 11 \phantom{0} \\ \underline{-9} \phantom{0} \\ 27 \\ \underline{-27} \\ 0 \end{array}$$

$$512 \div 8 = 64$$

$$\begin{array}{r} 64 \\ 8 \overline{) 512} \\ \underline{-0} \phantom{00} \\ 51 \phantom{0} \\ \underline{-48} \phantom{0} \\ 32 \\ \underline{-32} \\ 0 \end{array}$$

### 6. Aufgabe: Dividieren (fortgeschritten)

a)  $125 \div 100 = 1,25$

b)  $5 \div 15 =$

$$1 \text{ R } 25$$

$$\begin{array}{r} 1,25 \\ 100 \overline{) 125} \\ \underline{-100} \phantom{00} \\ 25 \phantom{00} \end{array}$$

$$\begin{array}{r} 0,3 \\ 15 \overline{) 50} \\ \underline{-0} \phantom{00} \\ 50 \phantom{00} \\ \underline{-0} \phantom{00} \\ 50 \phantom{00} \\ \underline{-0} \phantom{00} \\ 50 \phantom{00} \end{array}$$

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$$\begin{array}{r|rrrrrrrrrr} 1 & 0 & 0 & & 1 & 2 & 5 & , & 0 & 0 & 0 & 0 & 0 & \dots \\ - & 1 & 0 & 0 & & 2 & 5 & & 0 & & & & \\ \hline & & & & - & 2 & 0 & & 0 & & & & \\ \hline & & & & & 5 & & & 0 & 0 & & & \\ - & & & & & 5 & & & 0 & 0 & & & \\ \hline & & & & & & & & 0 & & & & \end{array}$$

$$\begin{array}{r|rrrrrr} 1 & 5 & & 0 & 0 & 0 & 0 \\ - & 0 & & 5 & 0 & 0 & 0 \\ \hline & 5 & 0 & & & & \\ 4 & 5 & & & & & \\ \hline & 5 & 0 & & & & \\ 4 & 5 & & & & & \\ \hline & & & 5 & & & \end{array}$$

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