

5. 109 Nr. 2

$$\begin{aligned} \text{b) } 27 + 59 + 13 + 31 &= 27 + 13 + 59 + 31 \\ &= 40 + 90 \\ &= \underline{\underline{130}} \end{aligned}$$

$$\begin{aligned} 68 + 97 + 112 + 23 &= 68 + 112 + 97 + 23 \\ &= 180 + 120 \\ &= \underline{\underline{300}} \end{aligned}$$

$$\begin{aligned} 173 + 54 + 136 + 227 &= 173 + 227 + 54 + 136 \\ &= 400 + 190 \\ &= \underline{\underline{590}} \end{aligned}$$

$$\begin{aligned} \text{d) } 8 \cdot 7 \cdot 125 \cdot 5 &= 8 \cdot 125 \cdot 7 \cdot 5 \\ &= 1000 \cdot 35 \\ &= \underline{\underline{35000}} \end{aligned}$$

$$\begin{aligned} 25 \cdot 73 \cdot 40 \cdot 2 &= 25 \cdot 2 \cdot 40 \cdot 73 \\ &= 50 \cdot 40 \cdot 73 \\ &= 2000 \cdot 73 \\ &= \underline{\underline{146000}} \end{aligned}$$

$$\begin{aligned} 12 \cdot 4 \cdot 25 \cdot 8 &= 4 \cdot 25 \cdot 8 \cdot 12 \\ &= 100 \cdot 8 \cdot 12 \\ &= 800 \cdot 12 \\ &= \underline{\underline{9600}} \end{aligned}$$

S. 109 Nr. 3

$$a) 76 + (67 + 33) = 76 + 100 = \underline{\underline{176}}$$

$$b) (123 + 77) + 244 = 200 + 244 = \underline{\underline{444}}$$

$$c) 447 + (137 + 163) = 447 + 300 = \underline{\underline{747}}$$

$$d) 17 \cdot (5 \cdot 2) = 17 \cdot 10 = \underline{\underline{170}}$$

$$e) (25 \cdot 4) \cdot 29 = 100 \cdot 29 = \underline{\underline{2900}}$$

$$f) 39 \cdot (5 \cdot 20) = 39 \cdot 100 = \underline{\underline{3900}}$$

$$g) 27 \cdot (125 \cdot 8) = 27 \cdot 1000 = \underline{\underline{27000}}$$

$$h) (20 \cdot 5) \cdot 45 = 100 \cdot 45 = \underline{\underline{4500}}$$

$$i) (25 \cdot 8) \cdot (20 \cdot 5) = 200 \cdot 100 = \underline{\underline{20000}}$$

Nr. 4

$$a) 36 \cdot 50 = (36 \cdot 10) \cdot 5 = 360 \cdot 5 = 1800$$

$$b) 25 \cdot 24 = (25 \cdot 4) \cdot 6 = 100 \cdot 6 = 600$$

$$c) 20 \cdot 35 = 2 \cdot (10 \cdot 35) = 2 \cdot 350 = 700$$

$$d) 125 \cdot 32 = (125 \cdot 8) \cdot 4 = 1000 \cdot 4 = 4000$$

$$e) 48 \cdot 250 = 6 \cdot (8 \cdot 250) = 6 \cdot 2000 = 12000$$

$$f) 200 \cdot 45 = (200 \cdot 5) \cdot 9 = 1000 \cdot 9 = 9000$$

S. 109 Nr. 5

a) (1)  $85 - 35 - 18 = 50 - 18 = \underline{\underline{32}}$

(2)  $184 - (47 + 23) = 184 - 70 = \underline{\underline{114}}$

(3)  $800 : (25 \cdot 4) = 800 : 100 = \underline{\underline{8}}$

(4)  $720 : 6 : 4 = 120 : 4 = \underline{\underline{30}}$

b) (1)  $97 - 37 - 42 = (97 - 37) - 42 = 60 - 42 = \underline{\underline{18}}$

$95 - 43 - 27 = 95 - (43 + 27) = 95 - 70 = \underline{\underline{25}}$

(2)  $268 - 73 - 27 = 268 - (73 + 27) = 268 - 100 = \underline{\underline{168}}$

$278 - 178 - 53 = (278 - 178) - 53 = 100 - 53 = \underline{\underline{47}}$

(3)  $240 : 8 : 3 = 240 : (8 \cdot 3) = 240 : 24 = \underline{\underline{10}}$

$540 : 9 : 6 = 540 : (9 \cdot 6) = 540 : 54 = \underline{\underline{10}}$

(4)  $540 : 12 : 5 = 540 : (12 \cdot 5) = 540 : 60 = \underline{\underline{9}}$

$840 : 7 : 8 = (840 : 7) : 8 = 120 : 8 = \underline{\underline{15}}$

S. 110 Nr. 12

a) (1)  $950 - 583 - 267 = \underline{100}$

(2)  $950 - (583 + 267) = 950 - 850 = \underline{100}$

A: Es bleiben 100 Plätze frei.

b) (1)  $400 : \cancel{2}^4 : 25 = \cancel{200}^1 : 25 = \underline{8}^4$

(2)  $400 : (\cancel{2} \cdot 25) = 400 : \cancel{50}^{100} = \underline{8}^4$

A: Jeder Schüler muss ~~2~~<sup>4</sup>,-€ bezahlen.

Nr. 13

(1)  $195 - 93 - 37 = \underline{65}$

(2)  $195 - (93 + 37) = 195 - 130 = \underline{65}$

A: Thomas behält 65,-€ übrig.

Nr. 16

a) 45

b) 4950

c) 2450

d) 2500

S. 112 Nr. 5

$$(1) 37 \cdot 9 = 30 \cdot 9 + 7 \cdot 9 = 270 + 63 = \underline{\underline{333}}$$

$$(2) 37 \cdot 9 = 37 \cdot 10 - 37 \cdot 1 = 370 - 37 = \underline{\underline{333}}$$

$$(1) 46 \cdot 9 = 40 \cdot 9 + 6 \cdot 9 = 360 + 54 = \underline{\underline{414}}$$

$$(2) 46 \cdot 9 = 46 \cdot 10 - 46 \cdot 1 = 460 - 46 = \underline{\underline{414}}$$

$$(1) 6 \cdot 99 = 6 \cdot 90 + 6 \cdot 9 = 540 + 54 = \underline{\underline{594}}$$

$$(2) 6 \cdot 99 = 6 \cdot 100 - 6 \cdot 1 = 600 - 6 = \underline{\underline{594}}$$

$$(1) 8 \cdot 89 = 8 \cdot 80 + 8 \cdot 9 = 640 + 72 = \underline{\underline{712}}$$

$$(2) 8 \cdot 89 = 8 \cdot 90 - 8 \cdot 1 = 720 - 8 = \underline{\underline{712}}$$

S. 113 Nr. 9

$$a) 7 \cdot 81 = 7 \cdot (80 + 1) = 7 \cdot 80 + 7 \cdot 1 = 560 + 7 = \underline{\underline{567}}$$

$$22 \cdot 13 = 22 \cdot (10 + 3) = 22 \cdot 10 + 22 \cdot 3 = 220 + 66 = \underline{\underline{286}}$$

$$b) 6 \cdot 49 = 6 \cdot (50 - 1) = 6 \cdot 50 - 6 \cdot 1 = 300 - 6 = \underline{\underline{294}}$$

$$14 \cdot 99 = 14 \cdot (100 - 1) = 14 \cdot 100 - 14 \cdot 1 = 1400 - 14 = \underline{\underline{1386}}$$

$$c) 7 \cdot 69 = 7 \cdot (70 - 1) = 490 - 7 = \underline{\underline{483}}$$

$$8 \cdot 93 = 8 \cdot (90 + 3) = 720 + 24 = \underline{\underline{744}}$$

S. 113 Nr. 10

$$a) (1) 5 \cdot (24 + 26) = 5 \cdot 50 = \underline{250}$$

$$(2) 5 \cdot 24 + 5 \cdot 26 = 120 + 130 = \underline{250}$$

$$b) (1) 26 \cdot (0,90 + 0,20 + 0,40) = 26 \cdot (1,50) = \underline{39}$$

$$(2) 26 \cdot 0,90 + 26 \cdot 0,20 + 26 \cdot 0,40 = 23,40 + 5,20 + 10,40 = \underline{39}$$

$$c) 6300 \cdot 0,55 + 5450 \cdot 0,55 = 3465 + 2997,50 = \underline{6462,50}$$

$$(6300 + 5450) \cdot 0,55 = 11750 \cdot 0,55 = \underline{6462,50}$$

Nr. 11

$$a) 5 \cdot (8 + \boxed{12}) = 100$$

$$b) (49 + 51) \cdot \boxed{10} = 1000$$

$$c) 12 \cdot (\boxed{10} - 5) = 60$$

$$d) 6 \cdot 8 - \boxed{9} \cdot 8 = 16$$

$$e) (20 + \boxed{4}) : 4 = 6$$

$$f) 21 : 3 - \boxed{6} : 3 = 5$$