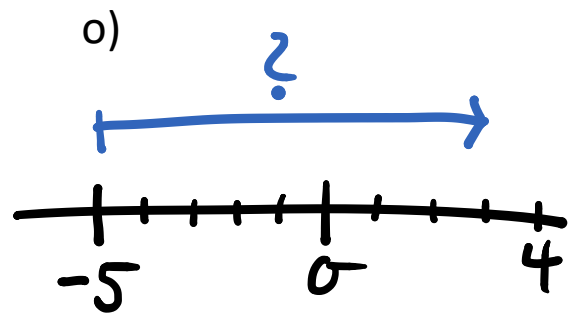


Aufgaben „Ganze Zahlen“ Teil 1

- a) $-3 - (+5) + (+6) - (+8)$
- b) $4 - (-4) - (-3) - (-2) + 1$
- c) $+12 + (+5 - 2) - (-2 + 3) - 2$
- d) $(+2 - 2) - (-8 + 7) - (-1 - 1)$



- e) $(-8) \cdot (-3)$
- f) $-4 \cdot (+5)$
- g) $15 \cdot (-2)$
- h) $-3 \cdot (-2) \cdot 4$



- i) $12 : (-4)$
- j) $-121 : (-11)$

p) jetzt: 16°
morgen: -5°

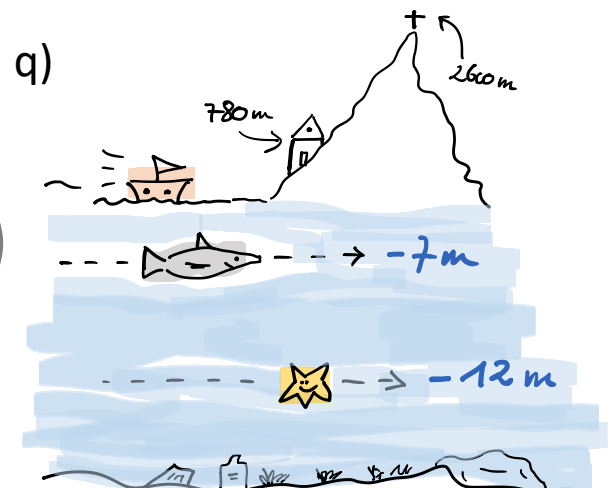
- k) $\frac{-4}{2}$

Oh! Ein Bruch!

- l) $11 \xrightarrow{\square} -2$

- m) $\square \xrightarrow{+3} -2$

- n) $-3 \xrightarrow{-4} \square$



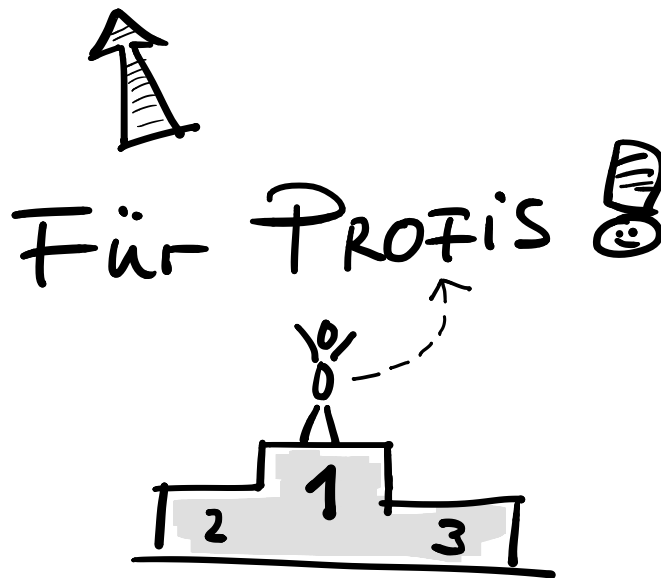
Aufgaben „Ganze Zahlen“ Teil 2

r) $-9 - (+7 - 2) - (-3 - (-4))$

s) $12 - (88 + 12 - 3) - (+7 - 9) - (-34)$

t) $-2 \cdot 8 - 4 + (-5) \cdot (-1)$

u) $-23 \cdot (-9 : (4 - (-5)) : (16 - (-8 + 1 \cdot 1)))$



Aufgaben „Ganze Zahlen“ Teil 1 – LÖSUNGEN

a)

$$\begin{aligned}
 \text{a)} \quad & -3 - (+5) + (+6) - (+8) \\
 & = -3 - 5 + 6 - 8 \\
 & = -3 - 5 - 8 + 6 \\
 & = -16 + 6 \\
 & = -10
 \end{aligned}$$

$$\begin{aligned}
 \text{b)} \quad & 4 - (-4) - (-3) - (-2) + 1 \\
 & = 4 + 4 + 3 + 2 + 1 \\
 & = 14
 \end{aligned}$$

$$\begin{aligned}
 \text{c)} \quad & +12 + (+5 - 2) - (-2 + 3) - 2 \\
 & = 12 + 5 - 2 + 2 - 3 - 2 \\
 & = 12 + 5 + 2 - 2 - 3 - 2 \\
 & = 19 - 7 \\
 & = 12
 \end{aligned}$$

$$\begin{aligned}
 & +12 + (+5 - 2) - (-2 + 3) - 2 \\
 & = 12 + (+3) - (+1) - 2 \\
 & = 12 + 3 - 1 - 2 \\
 & = 15 - 3 \\
 & = 12
 \end{aligned}$$

ODER SO

$$\begin{aligned}
 \text{d)} \quad & (+2 - 2) - (-8 + 7) - (-1 - 1) \\
 & = 2 - 2 + 8 - 7 + 1 + 1 \\
 & = 2 + 8 + 1 + 1 - 2 - 7 \\
 & = 12 - 9 \\
 & = 3
 \end{aligned}$$

$$\begin{aligned}
 & (+2 - 2) - (-8 + 7) - (-1 - 1) \\
 & = 2 - 2 - (-1) - (-2) \\
 & = 2 - 2 + 1 + 2 \\
 & = 2 + 1 + 2 - 2 \\
 & = 3
 \end{aligned}$$

ODER SO

$$\text{e)} \quad (-8) \cdot (-3) = +24$$

$$\text{g)} \quad 15 \cdot (-2) = -30$$

$$\text{f)} \quad -4 \cdot (+5) = -20$$

$$\begin{aligned}
 \text{h)} \quad & -3 \cdot (-2) \cdot 4 \\
 & = +6 \cdot 4 = +24
 \end{aligned}$$

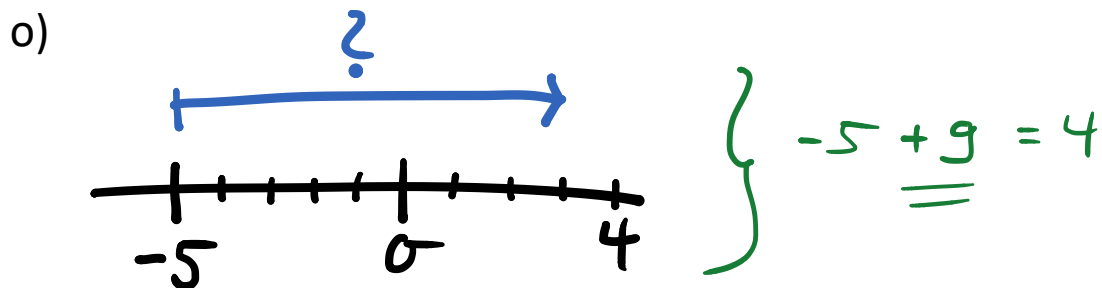
$$\text{i)} \quad 12 : (-4) = -3$$

$$\text{j)} \quad -121 : (-11) = +11$$

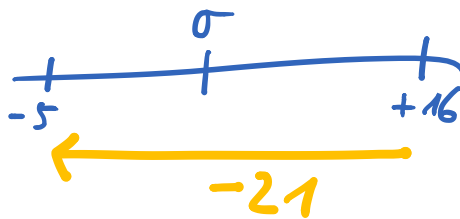
$$\text{k)} \quad \frac{-4}{2} = -4 : (+2) = -2$$

l) $11 \xrightarrow{\boxed{-13}} -2$ m) $\boxed{-5} \xrightarrow{+3} -2$

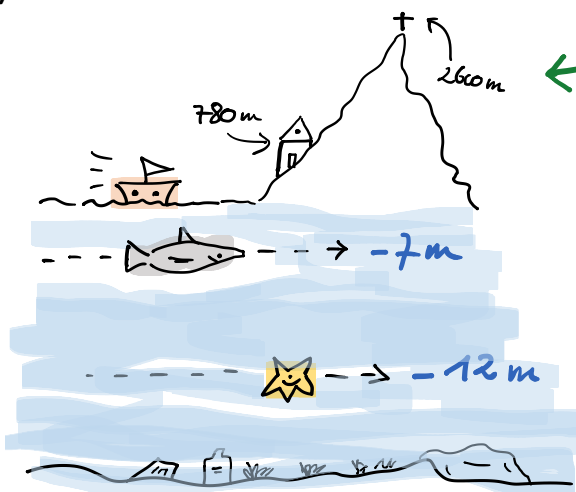
n) $-3 \xrightarrow{-4} \boxed{-7}$



p) Jetzt 16° , morgen -5°



q)



z.B.

$2600 - 780 = 1820$

z.B.

$-7 - 5 = -12$

Aufgaben „Ganze Zahlen“ Teil 2 – LÖSUNGEN

$$\begin{aligned}
 \text{r)} \quad & -9 - (+7 - 2) - (-3 - (-4)) \\
 & = -9 - (+5) - (-3 + 4) \\
 & = -9 - 5 - (+1) \\
 & = -9 - 5 - 1 \\
 & = -15
 \end{aligned}$$

$$\begin{aligned}
 \text{s)} \quad & 12 - (88 + 12 - 3) - (+7 - 9) - (-34) \\
 & = 12 - (97) - (-2) + 34 \\
 & = 12 - 97 + 2 + 34 \\
 & = 2 + 34 + 12 - 97 \\
 & = 48 - 97 \\
 & = -49
 \end{aligned}$$

*SORTIEREN!
PLUSZAHLEN... Minuszahlen*

$$\begin{aligned}
 \text{t)} \quad & -2 \cdot 8 - 4 + (-5) \cdot (-1) \\
 & = -16 - 4 + (+5) \\
 & = -16 - 4 + 5 \\
 & = -20 + 5 \\
 & = -15
 \end{aligned}$$

*ACHTUNG:
Punkt vor Strich!*

z.B.: $3 + 2 \cdot 4 = 3 + 8 = 11$ ✓

$$\begin{aligned}
 \text{u)} \quad & -23 \cdot (-9 : (4 - (-5)) : (16 - (-8 + 1 \cdot 1))) \\
 & = -23 \cdot (-9 : (4 + 5)) : (16 - (-8 + 1)) \\
 & = -23 \cdot (-9 : 9) : (16 - (-7)) \\
 & = -23 \cdot (-1) : (16 + 7) \\
 & = 23 : 23 \\
 & = 1
 \end{aligned}$$

*So viele
++ Klammern...*

*Von INNEN nach
AUSSEN*

*((())))
ZUERST*