

Klammern - 5 (Lösung)

Rechne und beachte Klammern und Rechenarten:

$$\begin{aligned} \text{a) } & [(+4) \cdot (-4)] - (+4) \cdot [(-4) + (+4)] - (+4) : (+4) = \\ & [4 \cdot -4] - 4 \cdot [-4 + 4] - 4 : 4 = \\ & [-16] - 4 \cdot [0] - 4 : 4 = \\ & -16 - 0 - 1 = \underline{-17} \end{aligned}$$

$$\begin{aligned} \text{b) } & (+5) - [(+5) - (+5) \cdot (+5)] - (-5) : (+5) + (-5) = \\ & 5 - [5 - 5 \cdot 5] + 5 : 5 - 5 = \\ & 5 - [5 - 25] + 1 - 5 = \\ & 5 + 20 + 1 - 5 = \underline{+21} \end{aligned}$$

$$\begin{aligned} \text{c) } & (+3) - \{[(+3) \cdot (+3) - (-3)] : (-3) + (-3)\} + (-3) = \\ & 3 - \{[3 \cdot 3 + 3] : -3 - 3\} - 3 = \\ & 3 - \{12 : -3 - 3\} - 3 = \\ & 3 + 7 - 3 = \underline{+7} \end{aligned}$$

$$\begin{aligned} \text{d) } & \{[(+6) \cdot (+6)] \cdot [(-6) - (-6)] - (+6)\} : (+6) - (+6) = \\ & \{[6 \cdot 6] \cdot [-6 + 6] - 6\} : 6 - 6 = \\ & \{36 \cdot 0 - 6\} : 6 - 6 = \\ & -6 : 6 - 6 = \underline{-7} \end{aligned}$$

$$\begin{aligned} \text{e) } & (+4) + (-4) - [(+4) \cdot (+4) : (+4) + (-4)] - (-4) = \\ & 4 - 4 - [4 \cdot 4 : 4 - 4] + 4 = \\ & 0 - [4 \cdot 1 - 4] + 4 = \\ & 0 - 0 + 4 = \underline{+4} \end{aligned}$$

$$\begin{aligned} \text{f) } & \{(+2) \cdot [(-2) + (-2)] + (+2) - (-2) + (-2)\} : (+2) = \\ & \{2 \cdot [-2 - 2] + 2 + 2 - 2\} : 2 = \\ & \{2 \cdot [-4] + 2 + 0\} : 2 = \\ & \{-8 + 2\} : 2 = -6 : 2 = \underline{-3} \end{aligned}$$