

# Arbeitsblatt

28.07.2013

Kostenlos auf [dw-aufgaben.de](http://dw-aufgaben.de)

Aufgaben-Quickname: 6732

## Aufgabe 1

Berechne.

Quick:  
6732

$$\begin{aligned} \text{a) } & (11 + 11) \cdot 12 \cdot (5 + 10) \\ & = 22 \cdot 12 \cdot 15 = 264 \cdot 15 = 3960 \end{aligned}$$

$$\begin{aligned} \text{b) } & (4 + 2 \cdot 2 \cdot 4) \cdot 20 \\ & = (4 + 4 \cdot 4) \cdot 20 = (4 + 16) \cdot 20 = 20 \cdot 20 = 400 \end{aligned}$$

$$\begin{aligned} \text{c) } & 18 \cdot (11 \cdot 12 - 4 \cdot 9) \\ & = 18 \cdot (132 - 36) = 18 \cdot 96 = 1728 \end{aligned}$$

$$\begin{aligned} \text{d) } & 15 \cdot (19 - 18) \cdot 11 \cdot 14 \\ & = 15 \cdot 1 \cdot 11 \cdot 14 = 15 \cdot 11 \cdot 14 = 165 \cdot 14 = 2310 \end{aligned}$$

$$\begin{aligned} \text{e) } & (17 - 14) \cdot 9 \cdot 10 \cdot 10 \\ & = 3 \cdot 9 \cdot 10 \cdot 10 = 27 \cdot 10 \cdot 10 = 270 \cdot 10 = 2700 \end{aligned}$$

$$\begin{aligned} \text{f) } & 16 + (6 + 7) \cdot 14 - 17 \\ & = 16 + 13 \cdot 14 - 17 = 16 + 182 - 17 = 198 - 17 = 181 \end{aligned}$$

$$\begin{aligned} \text{g) } & 10 \cdot 10 \cdot 12 \cdot 4 \cdot 7 \\ & = 100 \cdot 12 \cdot 4 \cdot 7 = 1200 \cdot 4 \cdot 7 = 4800 \cdot 7 = 33600 \end{aligned}$$

$$\begin{aligned} \text{h) } & (4 \cdot 7 : 14 + 8) \cdot 11 \\ & = (28 : 14 + 8) \cdot 11 = (2 + 8) \cdot 11 = 10 \cdot 11 = 110 \end{aligned}$$

$$\begin{aligned} \text{i) } & 20 \cdot (15 \cdot 16 - 8 \cdot 9) \\ & = 20 \cdot (240 - 72) = 20 \cdot 168 = 3360 \end{aligned}$$

$$\begin{aligned} \text{j) } & 19 \cdot (11 \cdot 14 - 5 \cdot 10) \\ & = 19 \cdot (154 - 50) = 19 \cdot 104 = 1976 \end{aligned}$$

## Aufgabe 2

Berechne.

Quick:  
6732

$$\begin{aligned} \text{a) } & -6 - (-19) + (-16) - (-2) \\ & = 13 + (-16) - (-2) = -3 - (-2) = -1 \end{aligned}$$

$$\begin{aligned} \text{b) } & (4 + 5) \cdot 11 - (-19) \\ & = 9 \cdot 11 - (-19) = 99 - (-19) = 118 \end{aligned}$$

$$\begin{aligned} \text{c) } & (-12) \cdot 15 - 7 \cdot 7 \\ & = -180 - 49 = -229 \end{aligned}$$

$$\begin{aligned} \text{d) } & 5 \cdot (-7) \cdot (-14) \cdot (-18) \\ & = (-35) \cdot (-14) \cdot (-18) = 490 \cdot (-18) = -8820 \end{aligned}$$

$$\begin{aligned} \text{e) } & (-17) \cdot ((-3) + 8) \cdot 10 \\ & = (-17) \cdot 5 \cdot 10 = (-85) \cdot 10 = -850 \end{aligned}$$

$$\begin{aligned} \text{f) } & (-6) \cdot (-6) - (-16) - 7 \\ & = 36 - (-16) - 7 = 52 - 7 = 45 \end{aligned}$$

$$\begin{aligned} \text{g) } & 2 \cdot (16 - 7 - 5) \\ & = 2 \cdot (9 - 5) = 2 \cdot 4 = 8 \end{aligned}$$

$$\begin{aligned} \text{h) } & ((-4) + (-13)) \cdot 17 - 19 \\ & = (-17) \cdot 17 - 19 = -289 - 19 = -308 \end{aligned}$$

$$\begin{aligned} \text{i) } & (-11) \cdot (-17) \cdot 20 \cdot 20 \\ & = 187 \cdot 20 \cdot 20 = 3740 \cdot 20 = 74800 \end{aligned}$$

$$\begin{aligned} \text{j) } & (13 - 11) \cdot (-2) \cdot (-9) \\ & = 2 \cdot (-2) \cdot (-9) = (-4) \cdot (-9) = 36 \end{aligned}$$

Aufgabe 3

Berechne.

Quick:  
6732

$$\begin{aligned} \text{a) } & (6 + 7 - 7) \cdot 7 \\ & = (13 - 7) \cdot 7 = 6 \cdot 7 = 42 \end{aligned}$$

$$\begin{aligned} \text{b) } & 9 \cdot 9 - 5 - 6 \\ & = 81 - 5 - 6 = 76 - 6 = 70 \end{aligned}$$

$$\begin{aligned} \text{c) } & (6 + 9) \cdot 3 \cdot 5 \\ & = 15 \cdot 3 \cdot 5 = 45 \cdot 5 = 225 \end{aligned}$$

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

$$\begin{aligned} \text{e) } & 9 - 5 + 2 + 3 \\ & = 4 + 2 + 3 = 6 + 3 = 9 \end{aligned}$$

$$\begin{aligned} \text{f) } & (6 - 5) \cdot (9 - 8) \\ & = 1 \cdot 1 = 1 \end{aligned}$$

$$\begin{aligned} \text{g) } & 9 \cdot 10 - 3 \cdot 5 \\ & = 90 - 15 = 75 \end{aligned}$$

$$\begin{aligned} \text{h) } & 5 - 2 - 6 + 6 \\ & = 3 - 6 + 6 = -3 + 6 = 3 \end{aligned}$$

$$\begin{aligned} \text{i) } & (8 - 8) \cdot (6 - 3) \\ & = 0 \cdot 3 = 0 \end{aligned}$$

$$\begin{aligned} \text{j) } & (10 - 7) \cdot 3 - 6 \\ & = 3 \cdot 3 - 6 = 9 - 6 = 3 \end{aligned}$$

Aufgabe 4

Berechne.

$$\begin{aligned} \text{a) } & 19 - 9 - 10 \\ & = 10 - 10 = 0 \end{aligned}$$

$$\begin{aligned} \text{b) } & -15 + 4 \cdot 13 \\ & = -15 + 52 = 37 \end{aligned}$$

$$\begin{aligned} \text{c) } & 12 + 2 \cdot 9 \\ & = 12 + 18 = 30 \end{aligned}$$

$$\begin{aligned} \text{d) } & -15 - 9 - 6 \\ & = -24 - 6 = -30 \end{aligned}$$

$$\begin{aligned} \text{e) } & 12 - (-6) - 4 \\ & = 18 - 4 = 14 \end{aligned}$$

$$\begin{aligned} \text{f) } & -6 + (-20) - (-10) \\ & = -26 - (-10) = -16 \end{aligned}$$

$$\begin{aligned} \text{g) } & 18 - 16 + (-12) \\ & = 2 + (-12) = -10 \end{aligned}$$

$$\begin{aligned} \text{h) } & (-5) \cdot (7 - (-5)) \\ & = (-5) \cdot 12 = -60 \end{aligned}$$

$$\begin{aligned} \text{i) } & 18 - (-5) - 14 \\ & = 23 - 14 = 9 \end{aligned}$$

$$\begin{aligned} \text{j) } & (5 + (-9)) \cdot (-12) \\ & = (-4) \cdot (-12) = 48 \end{aligned}$$

Viel Erfolg!