

Punkt vor Strich. Klammern – Lösung

1

$$\begin{aligned} \text{a)} \quad & \frac{1}{8} + \left(\frac{1}{4} \cdot \frac{1}{2} \right) \\ &= \frac{1}{8} + \frac{1}{8} \\ &= \frac{2}{8} = \frac{1}{4} \end{aligned}$$

$$\begin{aligned} \text{b)} \quad & \frac{1}{2} + \left(\frac{1}{4} \cdot 2 \right) \\ &= \frac{1}{2} + \frac{2}{4} \\ &= \frac{1}{2} + \frac{1}{2} \\ &= 1 \end{aligned}$$

$$\begin{aligned} \text{c)} \quad & \left(\frac{1}{2} \cdot \frac{1}{2} \right) + \frac{3}{4} \\ &= \frac{1}{4} + \frac{3}{4} \\ &= \frac{4}{4} = 1 \end{aligned}$$

$$\begin{aligned} \text{d)} \quad & \left(\frac{1}{5} \cdot \frac{1}{2} \right) - \frac{1}{10} \\ &= \frac{1}{10} - \frac{1}{10} \\ &= 0 \end{aligned}$$

2

$$\begin{aligned} \text{a)} \quad & \left(\frac{2}{3} - \frac{1}{3} \right) \cdot 2 \\ &= \frac{1}{3} \cdot 2 \\ &= \frac{2}{3} \end{aligned}$$

$$\begin{aligned} \text{b)} \quad & \frac{1}{4} \cdot \left(\frac{5}{6} - \frac{1}{6} \right) \\ &= \frac{1}{4} \cdot \frac{4}{6} \\ &= \frac{4}{24} = \frac{1}{6} \end{aligned}$$

$$\begin{aligned} \text{c)} \quad & \frac{7}{5} \cdot \left(\frac{1}{8} + \frac{4}{8} \right) \\ &= \frac{7}{5} \cdot \frac{5}{8} \\ &= \frac{35}{40} = \frac{7}{8} \end{aligned}$$

$$\begin{aligned} \text{d)} \quad & \frac{5}{6} - \left(\frac{1}{3} - \frac{1}{6} \right) \\ &= \frac{5}{6} - \frac{1}{6} \\ &= \frac{4}{6} = \frac{2}{3} \end{aligned}$$

3

$$\begin{aligned} \text{a)} \quad & 1 - \left(\frac{1}{2} - \frac{1}{4} \right) \\ &= 1 - \frac{1}{4} \\ &= \frac{3}{4} \end{aligned}$$

$$\begin{aligned} \text{b)} \quad & \frac{3}{4} - \left(\frac{1}{2} \cdot \frac{1}{2} \right) \\ &= \frac{3}{4} - \frac{1}{4} \\ &= \frac{2}{4} = \frac{1}{2} \end{aligned}$$

$$\begin{aligned} \text{c)} \quad & \frac{2}{3} + \left(\frac{1}{6} \cdot \frac{1}{2} \right) \\ &= \frac{2}{3} + \frac{1}{6} \cdot \frac{2}{1} \\ &= \frac{2}{3} + \frac{2}{6} \\ &= \frac{2}{3} + \frac{1}{3} \\ &= \frac{3}{3} = 1 \end{aligned}$$

$$\begin{aligned} \text{d)} \quad & \frac{2}{3} : \left(1\frac{1}{4} + \frac{3}{4} \right) \\ &= \frac{2}{3} : 2 \\ &= \frac{1}{3} \end{aligned}$$