

$$\textcircled{1} a) (-2) \cdot [-5 - 6 - 9] = -2 \cdot (-20) = \textcircled{40}$$

$$b) 3 - [(-3) - 2 \cdot (-3)] = 3 - [-3 + 6] = 3 - (+3) = 3 - 3 = \textcircled{0}$$

$$c) \left[\frac{5-3}{15} \cdot \frac{2}{3} \right] \cdot \frac{2}{5} : \left[\frac{3}{4} \cdot \left(\frac{1}{6} + \frac{18}{6} \right) \right] = \left(\frac{2}{15} \cdot \frac{2}{3} \right) \cdot \frac{2}{5} : \left(\frac{3}{4} \cdot \frac{19}{6} \right) =$$

$$= \frac{4}{45} \cdot \frac{2}{5} : \frac{19}{8} = \frac{8}{225} : \frac{19}{8} = \frac{64}{4275} \quad \left| \quad \frac{3 \cdot 19}{4 \cdot 6} \rightarrow \frac{3}{6} = \frac{1}{2} \right.$$

$$d) 15 : 3 + (-15 - 2 \cdot 7) = 5 - 15 - 14 = \textcircled{-24}$$

$$\textcircled{2} a) 6^2 \cdot 6^2 \cdot 6 = 6^{2+2+1} = \textcircled{6^5}$$

$$b) [(-8)^4 \cdot (-8)^3]^2 : (-8)^5 =$$

$$c) \frac{7^{3+1}}{7^2} = 7^{3+1-2} = \textcircled{7^2}$$

$$= (-8)^8 \cdot (-8)^6 : (-8)^5 = \textcircled{(-8)^9}$$

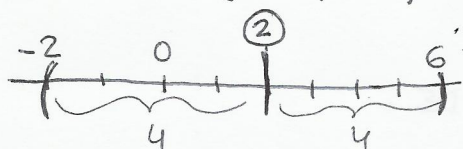
$$d) \frac{5^2 \cdot 5^2}{5^4} = 5^{2+2-4} = 5^0 = \textcircled{1}$$

$$\textcircled{3} a) 0,12 = \frac{12}{100} = \frac{2^2 \cdot 3}{5^2 \cdot 2^2} = \textcircled{\frac{3}{25}}$$

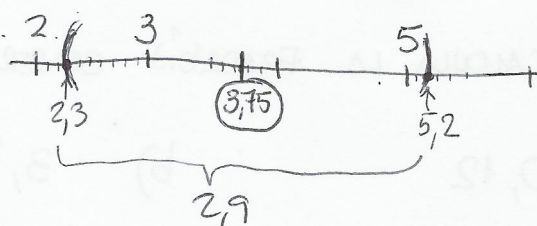
$$b) 3,61 = \frac{361-3}{99} = \textcircled{\frac{358}{99}}$$

$$c) 23,42\overline{7} = \frac{23427 - 2342}{900} = \frac{21085}{900} = \textcircled{\frac{4217}{180}}$$

$$\textcircled{4} a) (-2,6) = E(\underline{-2}, \underline{4})$$



$$b) (2,3; 5,2) = E(\underline{3,75}, \underline{1,45})$$



$$\textcircled{5} (1,6) = \{x \in \mathbb{R} \mid 1 < x < 6\}$$



$$(-3,2) = \{x \in \mathbb{R} \mid -3 < x < 2\}$$



$$(-\infty, 7) = \{x \in \mathbb{R} \mid x < 7\}$$



$$[-1, +\infty) = \{x \in \mathbb{R} \mid x \geq -1\}$$

