

学習日 月 日

年 組 番 氏名

1 次の計算をなさい。

① $8x \times 4$ ② $4a \times 3$

③ $(-2x) \times 3$

④ $(-x) \times (-7)$

⑤ $10x \times \frac{1}{5}$

⑥ $\left(-\frac{3}{4}y\right) \times \left(-\frac{8}{9}\right)$

2 次の計算をなさい。

① $12x \div 3$ ② $10y \div (-5)$

③ $8a \div 8$ ④ $(-6x) \div 4$

⑤ $\frac{2}{3}x \div 6$

⑥ $(-4a) \div \left(-\frac{2}{5}\right)$

⑦ $\frac{5}{4}x \div \frac{15}{16}$

1 項が1つの1次式と数との乗法は、
数どうしの積に文字をかける。

$$\begin{aligned} \textcircled{1} \quad 8x \times 4 &= 8 \times x \times 4 \\ &= 8 \times 4 \times x \\ &= 32x \\ \textcircled{2} \quad 4a \times 3 &= 4 \times a \times 3 \\ &= 4 \times 3 \times a \\ &= 12a \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad (-2x) \times 3 &= (-2) \times x \times 3 \\ &= (-2) \times 3 \times x \\ &= -6x \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad (-x) \times (-7) &= (-1) \times x \times (-7) \\ &= (-1) \times (-7) \times x \\ &= 7x \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad 10x \times \frac{1}{5} &= 10 \times x \times \frac{1}{5} \\ &= 10 \times \frac{1}{5} \times x \\ &= 2x \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad \left(-\frac{3}{4}y\right) \times \left(-\frac{8}{9}\right) &= \left(-\frac{3}{4}\right) \times y \times \left(-\frac{8}{9}\right) \\ &= \left(-\frac{3}{4}\right) \times \left(-\frac{8}{9}\right) \times y \\ &= \frac{2}{3}y \end{aligned}$$

2

$$\begin{aligned} \textcircled{1} \quad 12x \div 3 &= 12x \times \frac{1}{3} \\ &= 4x \\ \textcircled{2} \quad 10y \div (-5) &= 10y \times \left(-\frac{1}{5}\right) \\ &= -2y \end{aligned}$$

【別解】

$$\begin{aligned} 12x \div 3 &= \frac{12x}{3} \\ &= 4x \end{aligned}$$

【別解】

$$\begin{aligned} 10y \div (-5) &= -\frac{10y}{5} \\ &= -2y \end{aligned}$$

項が1つの1次式と数との除法は、
わる数の逆数をかけるか、分数の形に表
して計算する。

$$\begin{aligned} \textcircled{3} \quad 8a \div 8 &= 8a \times \frac{1}{8} \\ &= a \\ \textcircled{4} \quad (-6x) \div 4 &= (-6x) \times \frac{1}{4} \\ &= -\frac{3}{2}x \end{aligned}$$

【別解】

$$\begin{aligned} 8a \div 8 &= \frac{8a}{8} \\ &= a \end{aligned}$$

【別解】

$$\begin{aligned} (-6x) \div 4 &= -\frac{6x}{4} \\ &= -\frac{3x}{2} \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad \frac{2}{3}x \div 6 &= \frac{2}{3}x \times \frac{1}{6} \\ &= \frac{1}{9}x \quad \frac{x}{9} \text{も可} \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad (-4a) \div \left(-\frac{2}{5}\right) &= (-4a) \times \left(-\frac{5}{2}\right) \\ &= 10a \end{aligned}$$

$$\begin{aligned} \textcircled{7} \quad \frac{5}{4}x \div \frac{15}{16} &= \frac{5}{4}x \times \frac{16}{15} \\ &= \frac{4}{3}x \end{aligned}$$