

文字と式 [1次式と数の除法]

<演習問題>

次の計算をせよ。

(1) $12x \div 4$

(9) $(12x + 6) \div 3$

(2) $20a \div 5$

(10) $(8a - 6) \div 2$

(3) $-6x \div 6$

(11) $(24x - 12) \div (-2)$

(4) $56a \div (-2)$

(5) $-15x \div (-3)$

(12) $(15a - 12) \div 3$

(6) $-10a \div (-10)$

(13) $(2a - 1) \div \frac{1}{4}$

(7) $3a \div \frac{1}{3}$

(14) $(7x - 2) \div \left(-\frac{1}{3}\right)$

(8) $2y \div \left(-\frac{1}{5}\right)$

文字と式 [1次式と数の除法]

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次の計算をせよ。

(1) $12x \div 4$

$$\begin{aligned} 12x \div 4 &= 12x \times \frac{1}{4} \\ &= 3x \end{aligned}$$

(2) $20a \div 5$

$$\begin{aligned} 20a \div 5 &= 20a \times \frac{1}{5} \\ &= 4a \end{aligned}$$

(3) $-6x \div 6$

$$\begin{aligned} -6x \div 6 &= -6x \times \frac{1}{6} \\ &= -x \end{aligned}$$

(4) $56a \div (-2)$

$$\begin{aligned} 56a \div (-2) &= 56a \times \left(-\frac{1}{2}\right) \\ &= -28a \end{aligned}$$

(5) $-15x \div (-3)$

$$\begin{aligned} -15x \div (-3) &= -15x \times \left(-\frac{1}{3}\right) \\ &= 5x \end{aligned}$$

(6) $-10a \div (-10)$

$$\begin{aligned} -10a \div (-10) &= -10a \times \left(-\frac{1}{10}\right) \\ &= a \end{aligned}$$

(7) $3a \div \frac{1}{3}$

$$\begin{aligned} 3a \div \frac{1}{3} &= 3a \times 3 \\ &= 9a \end{aligned}$$

(8) $2y \div \left(-\frac{1}{5}\right)$

$$\begin{aligned} 2y \div \left(-\frac{1}{5}\right) &= 2y \times (-5) \\ &= -10y \end{aligned}$$

(9) $(12x + 6) \div 3$

$$\begin{aligned} (12x + 6) \div 3 &= (12x + 6) \times \frac{1}{3} \\ &= 12x \times \frac{1}{3} + 6 \times \frac{1}{3} \\ &= 4x + 2 \end{aligned}$$

(10) $(8a - 6) \div 2$

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

(11) $(24x - 12) \div (-2)$

$$\begin{aligned} (24x - 12) \div (-2) &= (24x - 12) \times \left(-\frac{1}{2}\right) \\ &= 24x \times \left(-\frac{1}{2}\right) - 12 \times \left(-\frac{1}{2}\right) \\ &= -12x + 6 \end{aligned}$$

(12) $(15a - 12) \div 3$

$$\begin{aligned} (15a - 12) \div 3 &= (15a - 12) \times \frac{1}{3} \\ &= 15a \times \frac{1}{3} - 12 \times \frac{1}{3} \\ &= 5a - 4 \end{aligned}$$

(13) $(2a - 1) \div \frac{1}{4}$

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

(14) $(7x - 2) \div \left(-\frac{1}{3}\right)$

$$\begin{aligned} (7x - 2) \div \left(-\frac{1}{3}\right) &= (7x - 2) \times (-3) \\ &= 7x \times (-3) - 2 \times (-3) \\ &= -21x + 6 \end{aligned}$$