

問題番号
07M02_K1L1_2
レベル
☆★★

うんな進学塾
中1 第2章 文字と式
①～②練習問題 Level-1-2 解答

授業動画QR



1. 次の式を、文字式の表し方にしたがって表しなさい。

(1) $3 \times b \times b$

(2) $x \times y \times z \div 4$

(3) $-2 \times a \div b$

(4) $\frac{2}{3} \times (-9y)$

(5) $(-5) \times a \times a \times b$

(6) $\frac{1}{2} \times (6y)$

(1) $3b^2$

(2) $\frac{xyz}{4}$

(3) $\frac{-2a}{b}$

(4) $-6y$

(5) $-5a^2b$

(6) $3y$

2. $x=3, y=-1$ を代入して次の式の値を求めなさい。

(1) $x - y + xy$

$$\begin{aligned} & 3 - (-1) + 3 \times (-1) \\ & = 3 + 1 - 3 = 1 \end{aligned}$$

(2) $7x - 2y^2$

$$\begin{aligned} & 7 \times 3 - 2(-1)^2 \\ & = 21 - 2 = 19 \end{aligned}$$

(3) $x^2y - y^3$

$$\begin{aligned} & 3^2 \times (-1) - (-1)^3 \\ & = 9 + 1 = -8 \end{aligned}$$

(4) $\frac{x^3}{y} + y^2$

$$\frac{3^3}{-1} + (-1)^2 = \frac{27}{-1} + 1 = -26$$

(5) $4x - 3y - x^2$

$$\begin{aligned} & 4 \times 3 - 3 \times (-1) - (3)^2 \\ & = 12 + 3 - 9 = 6 \end{aligned}$$

(6) $x^2 + xy - y^2$

$$\begin{aligned} & 3^2 + 3 \times (-1) - (-1)^2 \\ & = 9 - 3 - 1 = 5 \end{aligned}$$

(7) $\frac{x^2 + y^2}{x - y}$

$$\frac{(3)^2 + (-1)^2}{3 - (-1)} = \frac{9 + 1}{3 + 1} = \frac{10}{4} = \frac{5}{2} \quad \frac{3 + (-1)}{3 - (-1)} = \frac{2}{4} = \frac{1}{2}$$

(8) $\frac{x + y}{x - y}$

(9) $3(x + 0.5y) - 2(0.2x - y)$

$$\begin{aligned} & 3 \times (3 + 0.5 \times (-1)) - 2 \times (0.2 \times 3 - (-1)) \\ & = 3 \times (3 - 0.5) - 2 \times (0.6 + 1) \\ & = 3 \times (2.5) - 2 \times (1.6) = 7.5 - 3.2 \\ & = 4.3 \end{aligned}$$

(10) $4x - 3y + \frac{x}{y}$

$$\begin{aligned} & 4 \times (3) - 3 \times (-1) + \frac{3}{-1} \\ & = 12 + 3 - 3 = 12 \end{aligned}$$

(11) $\frac{5x^3 + 2y}{x - y}$

$$\begin{aligned} & \frac{5 \times (3)^3 + 2 \times (-1)}{3 - (-1)} \\ & = \frac{5 \times (27) + (-2)}{3 + 1} = \frac{133}{4} \end{aligned}$$

(12) $\frac{0.5x - 0.25y}{0.2x + 0.1y}$

$$\begin{aligned} & \frac{0.5 \times (3) - 0.25 \times (-1)}{0.2 \times 3 + 0.1 \times (-1)} = \frac{1.5 + 0.25}{0.6 - 0.1} \\ & = \frac{1.75}{0.5} = 3.5 \end{aligned}$$

(1) 1

(2) 19

(3) -8

(4)

(5) 6

(6) 5

(7) $\frac{5}{2}$

(8) $\frac{1}{2}$

(9) 4.3

(10) 12

(11) $\frac{133}{4}$

(12) $\frac{7}{2} = 3.5$