

第28回 式の値 演習編2

解答

a=5 のとき

$$\textcircled{1} \frac{a}{10} = a \div 10 = 5 \div 10 = \frac{1}{2}$$

t =  $\frac{2}{3}$  のとき

$$\textcircled{2} -t^2 = (-1) \times t \times t = (-1) \times \left(\frac{2}{3}\right) \times \left(\frac{2}{3}\right) = -\frac{1 \times 2 \times 2}{3 \times 3} = -\frac{4}{9}$$

$$\textcircled{3} t - 3 = \frac{2}{3} - 3 = \frac{2}{3} - \frac{9}{3} = -\frac{7}{3}$$

b = -4 のとき

$$\textcircled{4} \frac{8}{b} = 8 \div b = 8 \div (-4) = -\frac{8}{4} = -2$$

$$\textcircled{5} b^3 = (-4) \times (-4) \times (-4) = -64$$

$$\textcircled{6} -b^2 = (-1) \times b \times b = (-1) \times (-4) \times (-4) = -16$$

$$\textcircled{7} (-b^2) - 2b = \{(-1) \times (-4) \times (-4)\} - 2 \times (-4) = -16 + 8 = -8$$

b =  $-\frac{3}{4}$  のとき

$$\textcircled{8} -6b = (-6) \times b = (-6) \times \left(-\frac{3}{4}\right) = \frac{6 \times 3}{4} = \frac{9}{2}$$

$$\textcircled{9} b^2 = b \times b = \left(-\frac{3}{4}\right) \times \left(-\frac{3}{4}\right) = \frac{3 \times 3}{4 \times 4} = \frac{9}{16}$$

$$\textcircled{10} 2b - 1 = 2 \times b - 1 = 2 \times \left(-\frac{3}{4}\right) - 1 = -\frac{2 \times 3}{4} - 1 = -\frac{3}{2} - 1 = -\frac{3}{2} - \frac{2}{2} = -\frac{5}{2}$$