

1. $[x]$ 는 x 를 넘지 않는 가장 큰 정수일 때, 다음을 구하면?

$$\left| \left[-\frac{28}{8} \right] + \left[\frac{46}{3} \right] \right|$$

① 3

② 4

③ 6

④ 8

⑤ 11

해설

$$-4 < -\frac{28}{8} < -3 \text{ 이므로 } \left[-\frac{28}{8} \right] = -4$$

$$15 < \frac{46}{3} < 16 \text{ 이므로 } \left[\frac{46}{3} \right] = 15 \text{ 이다.}$$

$$\text{따라서 } \left| \left[-\frac{28}{8} \right] + \left[\frac{46}{3} \right] \right| = |-4 + 15| = 11 \text{ 이다.}$$

2. $3 - \left\{ \frac{1}{2} - 2 - \left(-\frac{2}{5} \right) \div 2 \right\} \times 5 - \frac{3}{2}$ 을 계산하면?

① 8

② 13

③ $-\frac{13}{10}$

④ $\frac{19}{2}$

⑤ $-\frac{13}{5}$

해설

$$\begin{aligned} & 3 - \left\{ \frac{1}{2} - 2 - \left(-\frac{2}{5} \right) \div 2 \right\} \times 5 - \frac{3}{2} \\ &= 3 - \left\{ \frac{1}{2} - 2 - \left(-\frac{2}{5} \right) \times \frac{1}{2} \right\} \times 5 - \frac{3}{2} \\ &= 3 - \left(\frac{1}{2} - 2 + \frac{1}{5} \right) \times 5 - \frac{3}{2} \\ &= 3 - \left(-\frac{13}{10} \right) \times 5 - \frac{3}{2} \\ &= 3 + \frac{13}{2} - \frac{3}{2} = 3 + 5 = 8 \end{aligned}$$

3. 다음 중 계산 결과가 $\left(-\frac{10}{3}\right) \times (0.2x + 0.5)$ 와 다른 하나는?

① $\left(-\frac{1}{3}\right) \times (2x + 5)$

② $\left(-\frac{2}{5}x - 1\right) \div 0.6$

③ $4 \times \left(-\frac{1}{6}x - \frac{5}{12}\right)$

④ $(-10) \times \left(\frac{2}{15}x + \frac{1}{8}\right)$

⑤ $\left(\frac{2}{5}x + 1\right) \div \left(-\frac{3}{5}\right)$

해설

$$\left(-\frac{10}{3}\right) \times (0.2x + 0.5)$$

$$= \left(-\frac{10}{3}\right) \times \frac{2}{10}x + \left(-\frac{10}{3}\right) \times \frac{5}{10} = -\frac{2}{3}x - \frac{5}{3}$$

$$\textcircled{1} \left(-\frac{1}{3}\right) \times (2x + 5) = -\frac{2}{3}x - \frac{5}{3}$$

$$\textcircled{2} \left(-\frac{2}{5}x - 1\right) \div 0.6 = -\frac{2}{3}x - \frac{5}{3}$$

$$\textcircled{3} 4 \times \left(-\frac{1}{6}x - \frac{5}{12}\right) = -\frac{2}{3}x - \frac{5}{3}$$

$$\textcircled{4} (-10) \times \left(\frac{2}{15}x + \frac{1}{8}\right) = -\frac{4}{3}x - \frac{5}{4}$$

$$\textcircled{5} \left(\frac{2}{5}x + 1\right) \div \left(-\frac{3}{5}\right) = -\frac{2}{3}x - \frac{5}{3}$$

따라서 다른 하나는 ④이다.