

1. 다음 중 가장 큰 수는?

① $(-2)^3$

② -2^3

③ $-(-2)^3$

④ -2^2

⑤ $(-2)^2$

해설

① $(-2)^3 = -8$

② $-2^3 = -8$

③ $-(-2)^3 = +8$

④ $-2^2 = -4$

⑤ $(-2)^2 = +4$

2. 두 수 a, b 가 다음과 같을 때, $a \div b$ 의 값은?

보기

$$a = \left(-\frac{2}{3}\right) \div \frac{4}{3} \times \left(-\frac{1}{2}\right)$$
$$b = (-2.5) \times \frac{8}{5} \div (-4) \times \left(-\frac{1}{2}\right)^3$$

- ① -4 ② -2 ③ 0 ④ 2 ⑤ 4

해설

$$a = \left(-\frac{2}{3}\right) \div \frac{4}{3} \times \left(-\frac{1}{2}\right)$$
$$= \left(-\frac{2}{3}\right) \times \frac{3}{4} \times \left(-\frac{1}{2}\right) = \frac{1}{4}$$
$$b = (-2.5) \times \frac{8}{5} \div (-4) \times \left(-\frac{1}{2}\right)^3$$
$$= \left(-\frac{5}{2}\right) \times \frac{8}{5} \div (-4) \times \left(-\frac{1}{8}\right)$$
$$= (-4) \times \left(-\frac{1}{4}\right) \times \left(-\frac{1}{8}\right) = -\frac{1}{8}$$
$$\therefore a \div b = \frac{1}{4} \div \left(-\frac{1}{8}\right) = \frac{1}{4} \times (-8) = -2$$

3. 두 수 a, b 에 대하여 $a = \left(-\frac{4}{3}\right) \div (-2)^2, b = (+9) + \left(-\frac{3}{2}\right) \div \left(+\frac{1}{4}\right)$

일 때, $a \times b$ 의 값은?

- ① -1 ② 0 ③ 1 ④ 2 ⑤ 3

해설

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

$$\begin{aligned} b &= (+9) + \left(-\frac{3}{2}\right) \div \left(+\frac{1}{4}\right) \\ &= (+9) + \left(-\frac{3}{2}\right) \times (+4) \\ &= (+9) + (-6) = 3 \end{aligned}$$

$$\therefore a \times b = \left(-\frac{1}{3}\right) \times 3 = -1$$

4. 다음 식에서 계산 순서 중 맨 마지막에 해야 될 것은?

$$2 + \frac{3}{5} \times \{(18 - 15 \div 5) \times 2\}$$

↓ ↓ ↓ ↓ ↓
㉠ ㉡ ㉢ ㉣ ㉤

- ① ㉠ ② ㉡ ③ ㉢ ④ ㉣ ⑤ ㉤

해설

곱셈과 나눗셈을 덧셈과 나눗셈보다 먼저 하며, ()를 먼저하고 { }를 계산한다.

5. $\frac{1}{3} \times \{-2 + 3 \times (-1)^3\} + \frac{3}{2}$ 을 계산하면?

- ① $-\frac{1}{6}$ ② $-\frac{1}{2}$ ③ $\frac{5}{6}$ ④ $\frac{3}{2}$ ⑤ $-\frac{5}{3}$

해설

$$\begin{aligned}(\text{준식}) &= \frac{1}{3} \times \{-2 + 3 \times (-1)\} + \frac{3}{2} \\ &= \frac{1}{3} \times (-2 - 3) + \frac{3}{2} \\ &= -\frac{5}{3} + \frac{3}{2} \\ &= \frac{-10 + 9}{6} \\ &= -\frac{1}{6}\end{aligned}$$

6. 다음 중 옳지 않은 것은?

① $(-1)^{99} - (-1)^{100} = -2$

② $\left(-\frac{1}{2}\right)^3 \times 24 = -3$

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

④ $(-1)^{100} - (-1^{99}) = 0$

⑤ $-3^{100} = -(-3)^{100}$

해설

④ $(-1)^{100} - (-1)^{99} = 1 - (-1) = 1 + 1 = 2$

7. 다음 중 옳게 계산된 것은?

① $-2^2 = 4$

② $(-1)^{101} = -101$

③ $(-2)^3 = -6$

④ $\left(-\frac{3}{2}\right)^3 = -\frac{27}{8}$

⑤ $\left(-\frac{1}{2}\right)^2 = -\frac{1}{4}$

해설

① $-2^2 = -4$

② $(-1)^{101} = -1$

③ $(-2)^3 = -8$

⑤ $\left(-\frac{1}{2}\right)^2 = \frac{1}{4}$

8. 다음 중 옳은 것은?

① $(-1)^{99} = (-1)^{100}$

② $(0.2)^2 < (0.2)^3$

③ $(-2)^3 < (-2)^4$

④ $\left(-\frac{1}{2}\right)^2 = 2^2$

⑤ $\left(-\frac{1}{2}\right)^2 < \left(-\frac{1}{3}\right)^2$

해설

① $-1 < 1$

② $0.04 > 0.008$

③ $-8 < 16$

④ $\frac{1}{4} < 4$

⑤ $\frac{1}{4} > \frac{1}{9}$

9. 다음 중 옳은 것은?

① $(-0.1)^2 < 0.1^2$

② $(-1)^{99} < (-2)^{99}$

③ $(-0.4)^3 > (-0.4)^2$

④ $10^2 < 10^3$

⑤ $\left(-\frac{1}{3}\right)^2 = -\left(\frac{1}{3}\right)^2$

해설

① $0.01 = 0.01$

② $-1 > -2^{99}$

③ $-0.064 < 0.16$

⑤ $\frac{1}{9} > -\frac{1}{9}$

10. 다음 중 계산 결과가 나머지와 다른 것을 골라라.

- ① $\left(-\frac{1}{2}\right)^3$ ② $-\left(\frac{1}{2}\right)^3$ ③ $-\left(-\frac{1}{2}\right)^3$
④ $-\frac{1}{2^3}$ ⑤ $\frac{1}{(-2)^3}$

해설

$$\textcircled{1} \left(-\frac{1}{2}\right)^3 = \left(-\frac{1}{2}\right) \times \left(-\frac{1}{2}\right) \times \left(-\frac{1}{2}\right) = -\frac{1}{8}$$

$$\textcircled{2} -\left(\frac{1}{2}\right)^3 = -\left(\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}\right) = -\frac{1}{8}$$

$$\textcircled{3} -\left(-\frac{1}{2}\right)^3 = -\left(-\frac{1}{8}\right) = \frac{1}{8}$$

$$\textcircled{4} -\frac{1}{2^3} = -\frac{1}{2 \times 2 \times 2} = -\frac{1}{8}$$

$$\textcircled{5} \frac{1}{(-2)^3} = \frac{1}{(-2) \times (-2) \times (-2)} = -\frac{1}{8}$$

11. 다음 중 옳지 않은 것을 모두 고르면? (정답 2개)

① $\frac{1}{-3^2} = \left(\frac{1}{-3}\right)^2$

② $-\frac{1}{3^2} = -\left(\frac{1}{3}\right)^2$

③ $\left(-\frac{1}{3}\right)^3 = \frac{1}{(-3)^3}$

④ $-\left(-\frac{1}{3}\right)^3 = \left(\frac{1}{-3}\right)^3$

⑤ $-\left(\frac{1}{3}\right)^3 = -\frac{1}{3^3}$

해설

① $\frac{1}{-3^2} = \frac{1}{-9}, \left(\frac{1}{-3}\right)^2 = \frac{1}{9}$

② $-\frac{1}{3^2} = \frac{1}{-9} = -\frac{1}{9}, -\left(\frac{1}{3}\right)^2 = -\frac{1}{9}$

③ $\left(-\frac{1}{3}\right)^3 = -\frac{1}{27}, \frac{1}{(-3)^3} = \frac{1}{-27} = -\frac{1}{27}$

④ $-\left(-\frac{1}{3}\right)^3 = -\left(-\frac{1}{27}\right) = \frac{1}{27}, \left(\frac{1}{-3}\right)^3 = \frac{1}{-27} = -\frac{1}{27}$

⑤ $-\left(\frac{1}{3}\right)^3 = -\frac{1}{27}, -\frac{1}{3^3} = -\frac{1}{27}$

12. 다음을 계산하면?

$$(-1^{100}) - (1^{100} + 1^{99}) \times (-1)^{99}$$

- ① -2 ② -1 ③ 0 ④ 1 ⑤ 2

해설

(준식)

$$= (-1) - (1 + 1) \times (-1)$$

$$= (-1) - 2 \times (-1) = -1 + 2 = 1$$

13. 다음 식의 값을 계산하면?

$$-(-1)^{98} + (-1)^{99} + (-1)^{100} + (-1)^{101}$$

- ① -4 ② -2 ③ 0 ④ 2 ⑤ 4

해설

$$-(-1)^{98} + (-1)^{99} + (-1)^{100} + (-1)^{101} = -1 + (-1) + 1 + (-1) = -2$$

14. 다음 중 옳지 않은 것은?

① $(-3)^2 \times (-1) = -9$

② $-3^2 \times (-1) = 9$

③ $(-2)^2 \times (-3)^2 = -36$

④ $-(-1)^3 \times (-2)^2 = 4$

⑤ $(-1)^{10} \times (-1)^{15} = -1$

해설

③ $(-2)^2 \times (-3)^2 = 4 \times 9 = 36$

15. 다음 중 옳은 것은?

① $(-2) \times (+3) = 6$

② $(-2)^3 \times (-3)^2 = -72$

③ $-2^2 \times (-3)^2 = 36$

④ $(-2)^3 \times (-1)^3 = -8$

⑤ $(-1)^3 \times (-1)^2 = 1$

해설

② $(-2)^3 \times (-3)^2 = (-8) \times 9 = -72$

16. n 이 짝수일 때, $(-1)^n + (-1)^{n+1} - (-1)^{n-1}$ 의 값은?

- ① -3 ② -2 ③ -1 ④ 0 ⑤ 1

해설

$$\begin{aligned} &(-1)^n = +1, (-1)^{n+1} = -1, (-1)^{n-1} = -1 \\ &(-1)^n + (-1)^{n+1} - (-1)^{n-1} \\ &= (+1) + (-1) - (-1) = (+1) + (-1) + (+1) = +1 \end{aligned}$$

17. $(-1)^n \times (-1^n) - (-1)^{n+1} - (-1)^{n-1}$ 의 값은?
(단, n 은 1 보다 큰 홀수)

- ① -3 ② -2 ③ 2 ④ 1 ⑤ -1

해설

n 이 홀수이므로 $n+1$, $n-1$ 은 짝수이다.
 \therefore (준식) $= (-1) \times (-1) - 1 - 1 = 1 - 2 = -1$

18. 다음을 계산하여라.

$$-3^2 - [7 - 9 \div \{3^2 + (-2)^3\} \times 5]$$

▶ 답:

▷ 정답: 29 또는 +29

해설

$$\begin{aligned} & -3^2 - [7 - 9 \div \{3^2 + (-2)^3\} \times 5] \\ & = -9 - [7 - 9 \div \{9 + (-8)\} \times 5] \\ & = -9 - \{7 - 9 \div (+1) \times 5\} \\ & = -9 - \{7 - (+45)\} \\ & = -9 - (-38) \\ & = 29 \end{aligned}$$

19. 다음을 계산하면?

$$15 - [6 \times \{(-3)^2 + 5\} + 2^3]$$

- ① -77 ② -34 ③ -14 ④ -9 ⑤ 2

해설

$$\begin{aligned} & 15 - [6 \times \{(-3)^2 + 5\} + 2^3] \\ &= 15 - [6 \times \{(+9) + 5\} + 8] \\ &= 15 - \{6 \times (+14) + 8\} \\ &= 15 - (84 + 8) \\ &= 15 - 92 \\ &= -77 \end{aligned}$$

20. 다음을 계산하여라.

$$(-1)^{100} \times (-1)^{101} - (-1)^{200} \times (-1)^{201}$$

▶ 답:

▷ 정답: 0

해설

$$\begin{aligned} & (-1)^{\text{짝수}} = 1, (-1)^{\text{홀수}} = -1 \text{ 이므로} \\ & (-1)^{100} = (-1)^{200} = 1 \\ & (-1)^{101} = (-1)^{201} = -1 \\ & (-1)^{100} \times (-1)^{101} - (-1)^{200} \times (-1)^{201} \\ & = 1 \times (-1) - 1 \times (-1) \\ & = (-1) - (-1) = (-1) + (+1) = 0 \end{aligned}$$

21. 다음 중 계산 결과 중 0에 가장 먼 것은?

- ① $2^2 - 1 \times 3^2$ ② $(-12) \div (-2)^2 - (-2)$
③ $(-5)^2 \times 2^2 + (-10)$ ④ $5^2 - (-2)^3 + 3^2$
⑤ $75 \div (-5)^2 \times 2^2$

해설

원점에서 멀수록 절댓값이 크다.

$$\begin{aligned} \text{① } 2^2 - 1 \times 3^2 &= 4 - 1 \times 9 \\ &= 4 - 9 = -5 \\ |-5| &= 5 \end{aligned}$$

$$\begin{aligned} \text{② } (-12) \div (-2)^2 - (-2) &= (-12) \div 4 + 2 \\ &= -3 + 2 = -1 \\ |-1| &= 1 \end{aligned}$$

$$\begin{aligned} \text{③ } (-5)^2 \times 2^2 + (-10) &= 25 \times 4 - 10 \\ &= 100 - 10 = 90 \\ |90| &= 90 \end{aligned}$$

$$\begin{aligned} \text{④ } 5^2 - (-2)^3 + 3^2 &= 25 - (-8) + 9 \\ &= 25 + 8 + 9 = 42 \\ |42| &= 42 \end{aligned}$$

$$\begin{aligned} \text{⑤ } 75 \div (-5)^2 \times 2^2 &= 75 \div 25 \times 4 \\ &= 3 \times 4 = 12 \\ |12| &= 12 \end{aligned}$$

계산 결과 중 절댓값이 가장 큰 것은 ③의 90이다.

22. 다음 중 계산 결과가 옳은 것은?

- ① $\left(-\frac{3}{4}\right) \div \left(-\frac{9}{2}\right) \times 6 = \frac{1}{36}$
- ② $\frac{2}{3} \times \left(-\frac{9}{10}\right) \div \left(-\frac{6}{5}\right) = \frac{18}{25}$
- ③ $\left(-\frac{2}{5}\right) \div \left(-\frac{4}{9}\right) \times (-20) = -18$
- ④ $\left(-\frac{9}{10}\right) \times \frac{2}{3} \div \left(-\frac{6}{5}\right) = \frac{1}{3}$
- ⑤ $\frac{1}{4} \div \left(-\frac{1}{10}\right) \div (-2)^2 = \frac{5}{8}$

해설

- ① $\left(-\frac{3}{4}\right) \div \left(-\frac{9}{2}\right) \times 6 = \left(-\frac{3}{4}\right) \times \left(-\frac{2}{9}\right) \times 6 = 1$
- ② $\frac{2}{3} \times \left(-\frac{9}{10}\right) \div \left(-\frac{6}{5}\right) = \frac{2}{3} \times \left(-\frac{9}{10}\right) \times \left(-\frac{5}{6}\right) = \frac{1}{2}$
- ③ $\left(-\frac{2}{5}\right) \div \left(-\frac{4}{9}\right) \times (-20) = \left(-\frac{2}{5}\right) \times \left(-\frac{9}{4}\right) \times (-20)$
 $= -18$
- ④ $\left(-\frac{9}{10}\right) \times \frac{2}{3} \div \left(-\frac{6}{5}\right) = \left(-\frac{9}{10}\right) \times \frac{2}{3} \times \left(-\frac{5}{6}\right) = \frac{1}{2}$
- ⑤ $\frac{1}{4} \div \left(-\frac{1}{10}\right) \div (-2)^2 = \frac{1}{4} \times (-10) \times \frac{1}{4} = -\frac{5}{8}$

23. 다음 중 계산결과가 나머지 넷과 다른 하나는?

① $(-2)^4 \div (-2)^2 \times (-3)$ ② $(-8^2) \times (-1)^3 \div 4^2 \times (+3)$

③ $(-3) \div (+1) \times 2^2$ ④ $(-6)^2 \div (-3^2) \times (+3)$

⑤ $(-3) \times (-2^2) \div (-1^{11})$

해설

① $(-2)^4 \div (-2)^2 \times (-3) = 16 \div 4 \times (-3) = 4 \times (-3) = -12$

② $(-8^2) \times (-1)^3 \div 4^2 \times (+3) = (-64) \times (-1) \div 16 \times 3 = 12$

③ $(-3) \div (+1) \times 2^2 = (-3) \div 1 \times 4 = -12$

④ $(-6)^2 \div (-3^2) \times (+3) = 36 \div (-9) \times 3 = -12$

⑤ $(-3) \times (-2^2) \div (-1^{11}) = (-3) \times (-4) \div (-1) = -12$

24. $A = -2^2 \times \left(-\frac{5}{4}\right) \div \frac{10}{3}$ 이고 $A \times B = 1$ 일 때, B 의 값은?

- ① -12 ② -4 ③ -3 ④ $\frac{1}{2}$ ⑤ $\frac{2}{3}$

해설

$$\begin{aligned} A &= -2^2 \times \left(-\frac{5}{4}\right) \div \frac{10}{3} \\ &= -4 \times \left(-\frac{5}{4}\right) \times \frac{3}{10} = \frac{3}{2} \end{aligned}$$

$A \times B = 1$ 이므로 B 는 A 의 역수이다.

$$\therefore B = \frac{2}{3}$$

25. 두 수 a, b 가 다음과 같을 때, $a \times b$ 의 값을 구하여라.

보기

$$a = (-5) \times (-3) \div (-2^2)$$

$$b = (-20) \div (-1.5) \times \frac{3}{5}$$

▶ 답:

▷ 정답: -30

해설

$$a = (-5) \times (-3) \div (-2^2)$$

$$= (-5) \times (-3) \div (-4)$$

$$= (+15) \times \left(-\frac{1}{4}\right)$$

$$= -\frac{15}{4}$$

$$b = (-20) \div (-1.5) \times \frac{3}{5}$$

$$= (-20) \div \left(-\frac{3}{2}\right) \times \frac{3}{5}$$

$$= (-20) \times \left(-\frac{2}{3}\right) \times \frac{3}{5} = 8$$

$$\therefore a \times b = \left(-\frac{15}{4}\right) \times 8 = -30$$

26. 다음 중 계산 결과가 나머지 넷과 다른 하나는?

① $a \div b \times c$

② $a \div b \div \frac{1}{c}$

③ $a \times \left(\frac{1}{b} \div \frac{1}{c}\right)$

④ $a \div b \div c$

⑤ $a \div (b \div c)$

해설

① $a \div b \times c = \frac{a}{b} \times c = \frac{ac}{b}$

② $a \div b \div \frac{1}{c} = \frac{a}{b} \times c = \frac{ac}{b}$

③ $a \times \left(\frac{1}{b} \div \frac{1}{c}\right) = a \times \left(\frac{1}{b} \times c\right) = a \times \frac{c}{b} = \frac{ac}{b}$

④ $a \div b \div c = \frac{a}{b} \times \frac{1}{c} = \frac{a}{bc}$

⑤ $a \div (b \div c) = a \div \frac{b}{c} = a \times \frac{c}{b} = \frac{ac}{b}$

27. $\left(-\frac{9}{4}\right) \div 6^2 \times \left(-\frac{24}{5}\right)$ 를 계산한 값은?

- ① $-\frac{3}{10}$ ② $\frac{3}{10}$ ③ $\frac{9}{10}$ ④ $-\frac{10}{9}$ ⑤ $-\frac{5}{18}$

해설

$$\begin{aligned} & \left(-\frac{9}{4}\right) \div 6^2 \times \left(-\frac{24}{5}\right) \\ &= \left(-\frac{9}{4}\right) \div 36 \times \left(-\frac{24}{5}\right) \\ &= \left(-\frac{9}{4}\right) \times \frac{1}{36} \times \left(-\frac{24}{5}\right) \\ &= +\left(\frac{9}{4} \times \frac{1}{36} \times \frac{24}{5}\right) = +\frac{3}{10} \end{aligned}$$

28. 다음 식의 □ 안에 알맞은 수를 써넣어라.

$$\left(-\frac{2}{5}\right) \div \square + \frac{4}{3} \times \left(-\frac{3}{2}\right) = \frac{1}{10}$$

▶ 답:

▷ 정답: $-\frac{4}{21}$

해설

$$\left(-\frac{2}{5}\right) \times \frac{1}{\square} + (-2) = \frac{1}{10}$$

$$\left(-\frac{2}{5}\right) \times \frac{1}{\square} = \frac{1}{10} + \frac{20}{10}$$

$$\left(-\frac{2}{5}\right) \times \frac{1}{\square} = \frac{21}{10}$$

$$\frac{1}{\square} = \frac{21}{10} \times \left(-\frac{5}{2}\right) = -\frac{21}{4}$$

$$\square = -\frac{4}{21}$$

29. 다음을 계산하여라.

$$3 - \left\{ \left(-\frac{3}{4} \right) \times (-2)^2 \div 5 \right\} \div \left(-\frac{2}{7} \right)$$

▶ 답:

▷ 정답: $\frac{9}{10}$

해설

$$\begin{aligned}(\text{준식}) &= 3 - \left\{ \left(-\frac{3}{4} \right) \times 4 \times \frac{1}{5} \right\} \times \left(-\frac{7}{2} \right) \\ &= 3 - \left(-\frac{3}{5} \right) \times \left(-\frac{7}{2} \right) \\ &= 3 - \left(+\frac{21}{10} \right) \\ &= 3 - \frac{21}{10} = \frac{9}{10}\end{aligned}$$

31. 다음을 계산하시오.

$$\left[\frac{2}{3} - \left\{ \left(-\frac{2}{3} \right) \div \left(-\frac{4}{7} \right) - 1 \right\} \times 2 \right] \times (-7)$$

▶ 답:

▷ 정답: $-\frac{7}{3}$

해설

$$\begin{aligned} & \left[\frac{2}{3} - \left\{ \left(-\frac{2}{3} \right) \div \left(-\frac{4}{7} \right) - 1 \right\} \times 2 \right] \times (-7) \\ &= \left[\frac{2}{3} - \left\{ \left(-\frac{2}{3} \right) \times \left(-\frac{7}{4} \right) - 1 \right\} \times 2 \right] \times (-7) \\ &= \left\{ \frac{2}{3} - \left(\frac{7}{6} - 1 \right) \times 2 \right\} \times (-7) \\ &= \left(\frac{2}{3} - \frac{1}{3} \right) \times (-7) \\ &= \frac{1}{3} \times (-7) = -\frac{7}{3} \end{aligned}$$

32. 다음 중 계산결과가 가장 작은 것을 고르면?

① $(-4) \times \{(-3) + (+2)\}$ ② $(-20) + (+4) \times (-2)$

③ $(-16) \div 4 - 3$ ④ $-7 + 1 - (-3)$

⑤ $5 \times 7 - (-3) \times (-2)$

해설

① $(-4) \times \{(-3) + (+2)\} = (-4) \times (-1) = 4$

② $(-20) + (+4) \times (-2) = (-20) + (-8) = -28$

③ $(-16) \div 4 - 3 = -4 - 3 = -7$

④ $-7 + 1 - (-3) = -7 + 1 + 3 = -3$

⑤ $5 \times 7 - (-3) \times (-2) = 35 - 6 = 29$

계산 결과가 가장 작은 것은 ②의 -28 이다.

33. 다음 계산 중 틀린 것은?

① $\left(-\frac{1}{3}\right) + \left(-\frac{1}{2}\right) = -\frac{5}{6}$

③ $3^2 \times (-2^2) \div (-4) = 9$

⑤ $2.5 \times (-2)^3 = -20$

② $(-2) - (-3) \times (-4) = -10$

④ $\left(-\frac{4}{7}\right) \div \left(+\frac{2}{5}\right) = -\frac{10}{7}$

해설

② $(-2) - (-3) \times (-4) = -2 - (+12) = -2 + (-12) = -14$

34. $(-1)^1 + (-1)^2 + (-1)^3 + (-1)^4 + \cdots + (-1)^{10}$ 의 값을 구하여라.

▶ 답:

▷ 정답: 0

해설

$$(-1)^1 = (-1)^3 = (-1)^5 = (-1)^7 = (-1)^9 = -1$$

$$(-1)^2 = (-1)^4 = (-1)^6 = (-1)^8 = (-1)^{10} = 1$$

$$\therefore -1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 - 1 + 1 = 0$$

35. $3 - \left\{ \frac{1}{2} - 2 - \left(-\frac{2}{5} \right) \div 2 \right\} \times 5 - \frac{3}{2}$ 을 계산하면?

- ① 8 ② 13 ③ $-\frac{13}{10}$ ④ $\frac{19}{2}$ ⑤ $-\frac{13}{5}$

해설

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