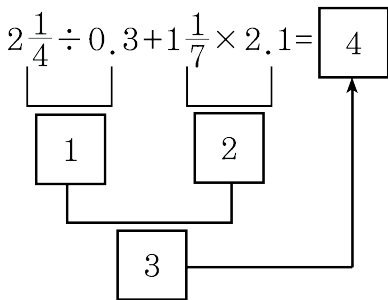


1. 다음 안에 알맞은 수를 차례대로 써넣은 것을 고르시오.



- ① $7\frac{1}{2}, 9\frac{9}{10}, 2\frac{3}{5}, 2\frac{3}{5}$
 ③ $7\frac{2}{3}, 2\frac{3}{5}, 9\frac{7}{10}, 9\frac{9}{10}$
 ⑤ $\frac{3}{5}, 2\frac{2}{5}, 3, 3$

- ② $7\frac{1}{2}, 2\frac{2}{5}, 9\frac{9}{10}, 9\frac{9}{10}$
 ④ $9\frac{9}{10}, 7\frac{1}{2}, 3\frac{2}{5}, 9\frac{1}{2}$

해설

곱셈과 나눗셈, 덧셈과 뺄셈의 순서로 계산합니다.

$$\begin{aligned} & 2\frac{1}{4} \div 0.3 + 1\frac{1}{7} \times 2.1 \\ &= \frac{9}{4} \times \frac{10}{3} + \frac{8}{7} \times \frac{21}{10} \\ &= \frac{15}{2} + \frac{12}{5} = \frac{75}{10} + \frac{24}{10} \\ &= \frac{99}{10} = 9\frac{9}{10} \end{aligned}$$

2. 안에 알맞은 소수를 써넣으시오.

$$\frac{3}{4} \div (\square + 0.3) \times 0.12 = \frac{9}{110}$$

▶ 답 :

▷ 정답 : 0.8

해설

$$\frac{3}{4} \div (\square + 0.3) \times 0.12 = \frac{9}{110}$$

$$\frac{3}{4} \div (\square + 0.3) = \frac{9}{110} \div 0.12$$

$$(\square + 0.3) = \frac{3}{4} \div \left(\frac{9}{110} \div 0.12 \right)$$

$$\square = \frac{3}{4} \div \left(\frac{9}{110} \times \frac{25}{3} \right) - 0.3$$

$$= \frac{3}{4} \times \frac{22}{15} - 0.3 = \frac{11}{10} - 0.3$$

$$= 1.1 - 0.3 = 0.8$$

3. 다음 식을 계산하시오.

$$2.24 \times 0.5 \div 1\frac{3}{4}$$

① $\frac{14}{25}$

② $\frac{3}{5}$

③ $\frac{16}{25}$

④ $\frac{17}{25}$

⑤ $\frac{18}{25}$

해설

$$\begin{aligned} & 2.24 \times 0.5 \div 1\frac{3}{4} \\ &= \frac{224}{100} \times \frac{5}{10} \div \frac{7}{4} \\ &= \frac{224}{100} \times \frac{5}{10} \times \frac{4}{7} \\ &= \frac{16}{25} \end{aligned}$$

4. 다음을 계산하여 소수로 나타내시오.

$$16.96 \div \left(1\frac{4}{5} + 3\frac{1}{2}\right)$$

▶ 답 :

▷ 정답 : 3.2

해설

$$\begin{aligned} & 16.96 \div \left(1\frac{4}{5} + 3\frac{1}{2}\right) \\ &= 16.96 \div \left(1\frac{8}{10} + 3\frac{5}{10}\right) \\ &= 16.96 \div 5\frac{3}{10} = \frac{1696}{100} \div \frac{53}{10} \\ &= \frac{1696}{100} \times \frac{10}{53} = \frac{16}{5} = 3\frac{1}{5} = 3.2 \end{aligned}$$

5. 다음 두 식의 계산 결과의 합을 구하시오.

$$\textcircled{\text{㉠}} \left(8\frac{4}{5} - 3.1 \right) \times \frac{1}{3}$$

$$\textcircled{\text{㉡}} 8\frac{4}{5} - 3.1 \times \frac{1}{3}$$

① 1.9

② 8.9

③ 9.9

④ $9\frac{1}{3}$

⑤ $9\frac{2}{3}$

해설

$$\textcircled{\text{㉠}} \left(8\frac{4}{5} - 3.1 \right) \times \frac{1}{3} = (8.8 - 3.1) \times \frac{1}{3} = 5.7 \times \frac{1}{3}$$

$$= \frac{57}{10} \times \frac{1}{3} = \frac{19}{10} = 1.9$$

$$\textcircled{\text{㉡}} 8\frac{4}{5} - 3.1 \times \frac{1}{3} = 8\frac{4}{5} - \frac{31}{10} \times \frac{1}{3}$$

$$= \frac{44}{5} - \frac{31}{30} = \frac{264}{30} - \frac{31}{30} = \frac{233}{30}$$

$$= 7\frac{23}{30}$$

따라서, $\textcircled{\text{㉠}} + \textcircled{\text{㉡}} = 1.9 + 7\frac{23}{30}$

$$= \frac{57}{30} + \frac{233}{30} = \frac{290}{30} = 9\frac{2}{3}$$

6. 다음 식이 참이 되도록 알맞은 곳에 ()를 한 것을 고르시오.

$$2\frac{4}{5} \div \frac{4}{3} \times \frac{1}{2} - \frac{1}{3} - 2.4 = 6$$

- ① $\left(2\frac{4}{5} \div \frac{4}{3}\right) \times \frac{1}{2} - \frac{1}{3} - 2.4 = 6$
② $2\frac{4}{5} \div \left(\frac{4}{3} \times \frac{1}{2} - \frac{1}{3}\right) - 2.4 = 6$
③ $2\frac{4}{5} \div \frac{4}{3} \times \left(\frac{1}{2} - \frac{1}{3} - 2.4\right) = 6$
④ $\left(2\frac{4}{5} \div \frac{4}{3} \times \frac{1}{2} - \frac{1}{3}\right) - 2.4 = 6$
⑤ $2\frac{4}{5} \div \left(\frac{4}{3} \times \frac{1}{2}\right) - \frac{1}{3} - 2.4 = 6$

해설

괄호 안을 먼저 계산하고, 곱셈과 나눗셈, 덧셈과 뺄셈의 순서로 계산합니다.

$$\begin{aligned} & 2\frac{4}{5} \div \left(\frac{4}{3} \times \frac{1}{2} - \frac{1}{3}\right) - 2.4 = 6 \\ &= 2\frac{4}{5} \div \left(\frac{2}{3} - \frac{1}{3}\right) - 2.4 \\ &= \frac{14}{5} \times 3 - 2.4 \\ &= \frac{42}{5} - 2.4 \\ &= 8.4 - 2.4 = 6 \end{aligned}$$

7. 안에 알맞은 분수를 써넣으시오.

$$4\frac{1}{3} \times \boxed{} \div 1\frac{4}{9} = 7\frac{1}{2}$$

▶ 답:

▷ 정답: $2\frac{1}{2}$

해설

$$\begin{aligned}\boxed{} &= 7\frac{1}{2} \times 1\frac{4}{9} \div 4\frac{1}{3} \\ &= \frac{15}{2} \times \frac{13}{9} \times \frac{3}{13} \\ &= \frac{5}{2} = 2\frac{1}{2}\end{aligned}$$

8. ㉠ 과 ㉡ 의 차를 구하시오.

$$\textcircled{㉠} 3.5 \div 2\frac{1}{5} - 0.6, \quad \textcircled{㉡} 3.5 \div \left(2\frac{1}{5} - 0.6\right)$$

① 0

② 1

③ $1\frac{3}{16}$

④ $2\frac{3}{16}$

⑤ $1\frac{173}{880}$

해설

$$\textcircled{㉠} 3.5 \div 2\frac{1}{5} - 0.6 = \frac{35}{22} - 0.6 = \frac{109}{110}$$

$$\textcircled{㉡} 3.5 \div \left(2\frac{1}{5} - 0.6\right) = 3.5 \div 1.6 = 2\frac{3}{16}$$

따라서

$$2\frac{3}{16} - \frac{109}{110} = \frac{(1925 - 872)}{880} = \frac{1053}{880} = 1\frac{173}{880}$$

9. $3.24 \div \square = \frac{1}{6}$ 이라고 할 때, $\square \div 6 - 1\frac{2}{5}$ 의 값을 구하여 소수로 쓰시오.

▶ 답 :

▷ 정답 : 1.84

해설

$$3.24 \div \square = \frac{1}{6}$$

$$\square = 3.24 \div \frac{1}{6} = 3.24 \times 6 = 19.44$$

$$\square = 19.44 \div 6 - 1\frac{2}{5} = 3.24 - 1.4 = 1.84$$

10. $\left(1\frac{1}{4} + \frac{1}{2}\right) \times 4 \div 1\frac{2}{5} - 1\frac{3}{4}$ 의 계산을 잘못하여 $1\frac{1}{4} + \frac{1}{2} \times 4 \div 1\frac{2}{5} - 1\frac{3}{4}$ 의 계산으로 하였습니다. 두 계산 결과의 차를 구하시오.

▶ 답:

▷ 정답: $2\frac{9}{28}$

해설

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

$$= 1\frac{3}{4} \times 4 \times \frac{5}{7} - 1\frac{3}{4} = 5 - 1\frac{3}{4} = 3\frac{1}{4}$$

$$1\frac{1}{4} + \frac{1}{2} \times 4 \div 1\frac{2}{5} - 1\frac{3}{4}$$

$$= 1\frac{1}{4} + \frac{1}{2} \times 4 \times \frac{5}{7} - 1\frac{3}{4} = 1\frac{1}{4} + 1\frac{3}{7} - 1\frac{3}{4} = \frac{13}{14}$$

$$\text{따라서 } 3\frac{1}{4} - \frac{13}{14} = 3\frac{7}{28} - \frac{26}{28} = 2\frac{9}{28}$$