

1.  $\frac{5}{6} \div \frac{2}{9}$ 를 구하는 과정으로 옳은 것은 어느 것입니까?

①  $\frac{5}{6} \times \frac{2}{9}$

②  $\frac{6}{5} \times \frac{9}{2}$

③  $\frac{5}{6} \times \frac{9}{2}$

④  $\frac{6}{5} \times \frac{2}{9}$

⑤  $\frac{5}{2} \times \frac{6}{9}$

해설

$$\frac{5}{6} \div \frac{2}{9} = \frac{5}{6} \times \frac{9}{2}$$

2.  $\frac{7}{5} \div \frac{6}{5}$  과 계산 결과가 같은 것을 모두 고르시오.

①  $\frac{5}{7} \div \frac{6}{5}$

②  $6 \div 7$

③  $\frac{7}{5} \times \frac{5}{6}$

④  $7 \div 6$

⑤  $\frac{5}{7} \times \frac{5}{6}$

해설

$$\frac{7}{5} \div \frac{6}{5} = \frac{7}{5} \times \frac{5}{6} = \frac{7}{6} = 7 \div 6$$

3. 다음 중 계산한 결과가 자연수가 아닌 것은 어느 것입니까?

①  $\frac{5}{6} \div \frac{1}{6}$

②  $\frac{6}{7} \div \frac{1}{7}$

③  $\frac{4}{5} \div \frac{2}{5}$

④  $\frac{9}{10} \div \frac{3}{10}$

⑤  $\frac{7}{8} \div \frac{2}{8}$

해설

①  $\frac{5}{6} \div \frac{1}{6} = 5 \div 1 = 5$

②  $\frac{6}{7} \div \frac{1}{7} = 6 \div 1 = 6$

③  $\frac{4}{5} \div \frac{2}{5} = 4 \div 2 = 2$

④  $\frac{9}{10} \div \frac{3}{10} = 9 \div 3 = 3$

⑤  $\frac{7}{8} \div \frac{2}{8} = 7 \div 2 = \frac{7}{2} = 3\frac{1}{2}$

4. 굵기가 일정한 철사  $3\frac{3}{4}$  m의 무게가  $4\frac{5}{8}$  kg입니다. 이 철사 1 m의 무게는 몇 kg인지 구하시오.

①  $1\frac{1}{6}$  kg

②  $\frac{30}{37}$  kg

③  $1\frac{17}{30}$  kg

④  $1\frac{7}{30}$  kg

⑤  $\frac{5}{6}$  kg

해설

$$4\frac{5}{8} \div 3\frac{3}{4} = \frac{37}{8} \div \frac{15}{4} = \frac{37}{8} \times \frac{4}{15} = \frac{37}{30} = 1\frac{7}{30} (\text{kg})$$

5. 다음 중 계산의 결과가 다른 것은 어느 것입니까?

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

②  $1\frac{3}{4} \times 2\frac{1}{7} \times 1\frac{1}{3}$

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

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

⑤  $1\frac{3}{4} \div \frac{3}{4} \times 2\frac{1}{7}$

해설

①, ②, ③, ⑤는  $\frac{7}{4} \times \frac{15}{7} \times \frac{4}{3}$

④  $1\frac{3}{4} \times 2\frac{1}{7} \div \frac{4}{3} = \frac{7}{4} \times \frac{15}{7} \times \frac{3}{4}$

6. 계산 결과가 큰 것부터 차례로 기호를 쓴 것을 고르시오.

$$\textcircled{\text{㉠}} 6 \div \frac{1}{5}$$

$$\textcircled{\text{㉡}} 7 \div \frac{1}{7}$$

$$\textcircled{\text{㉢}} 9 \div \frac{1}{4}$$

$$\textcircled{1} \textcircled{\text{㉠}}, \textcircled{\text{㉡}}, \textcircled{\text{㉢}}$$

$$\textcircled{2} \textcircled{\text{㉠}}, \textcircled{\text{㉢}}, \textcircled{\text{㉡}}$$

$$\textcircled{3} \textcircled{\text{㉡}}, \textcircled{\text{㉠}}, \textcircled{\text{㉢}}$$

$$\textcircled{4} \textcircled{\text{㉡}}, \textcircled{\text{㉢}}, \textcircled{\text{㉠}}$$

$$\textcircled{5} \textcircled{\text{㉢}}, \textcircled{\text{㉠}}, \textcircled{\text{㉡}}$$

해설

$$\textcircled{\text{㉠}} 6 \div \frac{1}{5} = 6 \times 5 = 30$$

$$\textcircled{\text{㉡}} 7 \div \frac{1}{7} = 7 \times 7 = 49$$

$$\textcircled{\text{㉢}} 9 \div \frac{1}{4} = 9 \times 4 = 36$$

따라서 계산 결과가 큰 것부터 차례대로 기호로 쓰면  $\textcircled{\text{㉡}}, \textcircled{\text{㉢}}, \textcircled{\text{㉠}}$ 과 같다.

7. 다음 중 계산의 결과가 다른 것은 어느 것입니까?

①  $2\frac{1}{2} \times 1\frac{3}{5} \div \frac{6}{7}$

②  $1\frac{1}{6} \div \frac{5}{8} \times 2\frac{1}{2}$

③  $\frac{5}{2} \times 1\frac{3}{5} \times 1\frac{1}{6}$

④  $2\frac{1}{2} \div \frac{5}{8} \times \frac{7}{6}$

⑤  $2\frac{1}{2} \div 1\frac{3}{5} \times \frac{6}{7}$

해설

①, ②, ③, ④는  $\frac{5}{2} \times \frac{8}{5} \times \frac{7}{6}$

⑤  $2\frac{1}{2} \div 1\frac{3}{5} \times \frac{6}{7} = \frac{5}{2} \times \frac{5}{8} \times \frac{6}{7}$

8. 분수의 나눗셈을 하시오.

$$\frac{14}{15} \div \frac{4}{5} \div \frac{2}{7}$$

①  $4\frac{1}{12}$

②  $\frac{1}{3}$

③  $\frac{12}{49}$

④  $\frac{1}{12}$

⑤  $\frac{16}{75}$

해설

$$\frac{14}{15} \div \frac{4}{5} \div \frac{2}{7} = \frac{14}{15} \times \frac{5}{4} \times \frac{7}{2} = \frac{49}{12} = 4\frac{1}{12}$$