

1. 다음은 나눗셈을 곱셈식으로 고친 것입니다. 바르게 나타낸 것은 어느 것입니까?

$$\begin{aligned} \textcircled{1} \quad & \frac{5}{7} \div \frac{2}{3} = \frac{5}{7} \times \frac{2}{3} \\ \textcircled{3} \quad & \frac{4}{5} \div \frac{1}{4} = \frac{4}{5} \times \frac{1}{4} \\ \textcircled{5} \quad & \frac{7}{10} \div \frac{14}{15} = \frac{7}{14} \times \frac{10}{15} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad & \frac{7}{10} \div \frac{3}{4} = \frac{7}{10} \times \frac{4}{3} \\ \textcircled{4} \quad & \frac{6}{7} \div \frac{2}{9} = \frac{7}{6} \times \frac{9}{2} \end{aligned}$$

해설

$$\begin{aligned} \textcircled{1} \quad & \frac{5}{7} \div \frac{2}{3} = \frac{5}{7} \times \frac{3}{2} \\ \textcircled{3} \quad & \frac{4}{5} \div \frac{1}{4} = \frac{4}{5} \times 4 \\ \textcircled{4} \quad & \frac{6}{7} \div \frac{2}{9} = \frac{6}{7} \times \frac{9}{2} \\ \textcircled{5} \quad & \frac{7}{10} \div \frac{14}{15} = \frac{7}{10} \times \frac{15}{14} \end{aligned}$$

2. 다음 중 계산 결과가 틀린 것은 어느 것입니까?

① $\frac{15}{13} \div \frac{2}{7} = 4\frac{1}{26}$

② $\frac{11}{6} \div \frac{3}{5} = 3\frac{1}{18}$

③ $\frac{5}{4} \div \frac{8}{7} = 1\frac{3}{32}$

④ $\frac{7}{3} \div \frac{5}{2} = \frac{14}{15}$

⑤ $\frac{11}{8} \div \frac{2}{3} = 2\frac{3}{16}$

해설

⑤ $\frac{11}{8} \div \frac{2}{3} = \frac{11}{8} \times \frac{3}{2} = \frac{33}{16} = 2\frac{1}{16}$

3. $\frac{3}{8}$ 을 어떤 수로 나누어야 할 것을 잘못하여 곱하였더니 5가 되었습니다. 어떤 수는 얼마입니까?

① $13\frac{1}{3}$

② $\frac{3}{40}$

③ $1\frac{7}{8}$

④ $13\frac{2}{3}$

⑤ $2\frac{1}{13}$

해설

$$\frac{3}{8} \times (\text{어떤 수}) = 5$$

$$(\text{어떤 수}) = 5 \div \frac{3}{8} = 5 \times \frac{8}{3} = \frac{40}{3} = 13\frac{1}{3}$$

4. 넓이가 $6\frac{3}{4}\text{ cm}^2$ 인 삼각형의 밑변의 길이가 $4\frac{2}{5}\text{ cm}$ 일 때, 높이는 몇 cm
입니까?

① $3\frac{3}{44}\text{ cm}$

② $2\frac{3}{43}\text{ cm}$

③ $1\frac{3}{44}\text{ cm}$

④ $\frac{5}{44}\text{ cm}$

⑤ $3\frac{1}{44}\text{ cm}$

해설

$$(\text{삼각형의 넓이}) = (\text{밑변의 길이}) \times (\text{높이}) \div 2$$

$$6\frac{3}{4} = 4\frac{2}{5} \times (\text{높이}) \div 2$$

$$(\text{삼각형의 높이}) = 6\frac{3}{4} \times 2 \div 4\frac{2}{5} = \frac{27}{\cancel{4}_2} \times \cancel{2} \div \frac{22}{5}$$

$$= \frac{27}{2} \times \frac{5}{22} = \frac{135}{44} = 3\frac{3}{44}(\text{cm})$$

5. 다음 중 틀린 것은 어느 것입니까?

① $1\frac{5}{9} \div \frac{7}{5} = 1\frac{1}{9}$

③ $\frac{5}{24} \div 1\frac{5}{6} = \frac{5}{44}$

⑤ $5\frac{1}{3} \div 1\frac{3}{7} = 3\frac{11}{15}$

② $4\frac{9}{14} \div 2\frac{3}{7} = 2\frac{2}{3}$

④ $1\frac{1}{6} \div \frac{5}{6} = 1\frac{2}{5}$

해설

① $1\frac{5}{9} \div \frac{7}{5} = \frac{14}{9} \div \frac{7}{5} = \frac{14}{9} \times \frac{5}{7} = \frac{10}{9} = 1\frac{1}{9}$

② $4\frac{9}{14} \div 2\frac{3}{7} = \frac{65}{14} \div \frac{17}{7} = \frac{65}{14} \times \frac{7}{17} = \frac{65}{34} = 1\frac{31}{34}$

③ $\frac{5}{24} \div 1\frac{5}{6} = \frac{5}{24} \div \frac{11}{6} = \frac{5}{24} \times \frac{6}{11} = \frac{5}{44}$

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

⑤ $5\frac{1}{3} \div 1\frac{3}{7} = \frac{16}{3} \div \frac{10}{7} = \frac{16}{3} \times \frac{7}{10} = \frac{56}{15} = 3\frac{11}{15}$

