

1. 다음 나눗셈 중 몫이 1보다 작은 것은 어느 것입니까?

$$\textcircled{\text{D}} \ 4 \div \frac{1}{8} \quad \textcircled{\text{L}} \ \frac{3}{4} \div \frac{5}{6} \quad \textcircled{\text{E}} \ 4\frac{6}{7} \div 3\frac{2}{5} \quad \textcircled{\text{B}} \ 1\frac{3}{8} \div 4\frac{2}{5}$$

- ① ⑦, ⑨ ② ⑦, ⑩ ③ ⑦, ⑪ ④ ⑨, ⑩ ⑤ ⑨, ⑪

해설

$$\textcircled{\text{D}} \ 4 \div \frac{1}{8} = 4 \times 8 = 32$$

$$\textcircled{\text{L}} \ \frac{3}{4} \div \frac{5}{6} = \frac{3}{\cancel{4}^2} \times \frac{\cancel{5}^3}{5} = \frac{9}{10}$$

$$\textcircled{\text{E}} \ 4\frac{6}{7} \div 3\frac{2}{5} = \frac{\cancel{34}^2}{7} \times \frac{5}{\cancel{17}^1} = 1\frac{3}{7}$$

$$\textcircled{\text{B}} \ 1\frac{3}{8} \div 4\frac{2}{5} = \frac{\cancel{14}^1}{8} \times \frac{5}{\cancel{22}^2} = \frac{5}{16}$$

따라서 몫이 1보다 작은 것은 ⑨과 ⑪입니다.

2. 다음 분수의 나눗셈을 바르게 한 것은 어느 것입니까?

$$1\frac{5}{9} \div 2\frac{1}{3} \div 2\frac{2}{5}$$

- ① $1\frac{3}{5}$ ② $\frac{5}{18}$ ③ $1\frac{8}{27}$ ④ $\frac{5}{8}$ ⑤ $3\frac{3}{5}$

해설

$$1\frac{5}{9} \div 2\frac{1}{3} \div 2\frac{2}{5} = \frac{14}{9} \div \frac{7}{3} \div \frac{12}{5} = \frac{\cancel{14}^2}{\cancel{9}^3} \times \frac{\cancel{3}^1}{\cancel{7}^1} \times \frac{5}{\cancel{12}^6} = \frac{5}{18}$$

3. 나눗셈의 몫이 가장 작은 것은 어느 것입니까?

$$\textcircled{1} \quad 2\frac{1}{6} \div \frac{8}{5}$$

$$\textcircled{4} \quad 2\frac{8}{9} \div \frac{8}{5}$$

$$\textcircled{2} \quad 3\frac{1}{5} \div \frac{8}{5}$$

$$\textcircled{5} \quad 1\frac{4}{15} \div \frac{8}{5}$$

$$\textcircled{3} \quad 1\frac{2}{3} \div \frac{8}{5}$$

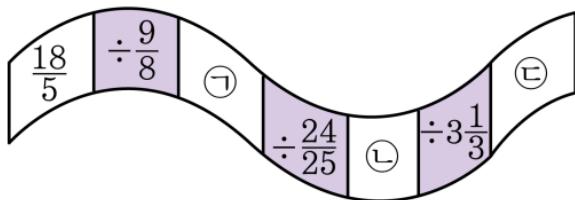
해설

나누는 수가 같을 때에는 나눠지는 수가 작을수록 몫도 작아집니다.

$$1\frac{4}{15} < 1\frac{2}{3} < 2\frac{1}{6} < 2\frac{8}{9} < 3\frac{1}{5} \text{ 이므로}$$

몫이 가장 작은 것은 $\textcircled{5} \quad 1\frac{4}{15} \div \frac{8}{5}$ 입니다.

4. 다음 빙간에 알맞은 수를 차례대로 구한 것을 고르시오.



① ⊖ $3\frac{1}{5}$, ⊖ $\frac{1}{3}$, ⊖ 1

③ ⊖ $3\frac{1}{5}$, ⊖ $2\frac{1}{3}$, ⊖ 2

⑤ ⊖ $3\frac{1}{5}$, ⊖ $3\frac{2}{3}$, ⊖ 3

② ⊖ $3\frac{1}{5}$, ⊖ $3\frac{1}{3}$, ⊖ 1

④ ⊖ $3\frac{1}{5}$, ⊖ $1\frac{1}{3}$, ⊖ 2

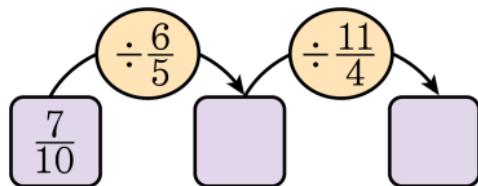
해설

$$\frac{18}{5} \div \frac{9}{8} = \frac{18}{5} \times \frac{8}{9} = \frac{16}{5} = 3\frac{1}{5}$$

$$\frac{16}{5} \div \frac{24}{25} = \frac{16}{5} \times \frac{25}{24} = \frac{10}{3} = 3\frac{1}{3}$$

$$\frac{10}{3} \div 3\frac{1}{3} = \frac{10}{3} \div \frac{10}{3} = 1$$

5. 다음 빈 칸에 알맞은 수를 차례대로 구한 것을 구하시오



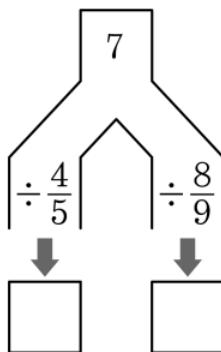
- ① $\frac{5}{12}, \frac{5}{33}$ ② $\frac{5}{12}, \frac{7}{33}$ ③ $\frac{7}{12}, \frac{7}{33}$
- ④ $\frac{7}{12}, \frac{13}{33}$ ⑤ $\frac{11}{12}, \frac{7}{33}$

해설

$$\frac{7}{10} \div \frac{6}{5} = \frac{7}{10} \times \frac{5}{6} = \frac{7}{12}$$

$$\frac{7}{12} \div \frac{11}{4} = \frac{7}{12} \times \frac{4}{11} = \frac{7}{33}$$

6. 다음 빈 칸에 알맞은 수를 차례대로 구한 것을 고르시오.



① $8\frac{3}{4}, 7\frac{7}{8}$

④ $8\frac{3}{4}, 5\frac{3}{8}$

② $8\frac{3}{4}, 6\frac{7}{8}$

⑤ $8\frac{1}{4}, 6\frac{5}{8}$

③ $8\frac{1}{4}, 5\frac{3}{8}$

해설

$$7 \div \frac{4}{5} = 7 \times \frac{5}{4} = \frac{35}{4} = 8\frac{3}{4}$$

$$7 \div \frac{8}{9} = 7 \times \frac{9}{8} = \frac{63}{8} = 7\frac{7}{8}$$

7. 다음 식에서 ○와 △는 서로 다른 자연수입니다. 다음 식이 성립하도록 하는 ○와 △는 모두 몇 쌍입니까?

$$3 \div \frac{\bigcirc}{12} = \triangle$$

- ① 4 쌍 ② 5 쌍 ③ 6 쌍 ④ 7 쌍 ⑤ 8 쌍

해설

곱해서 36이 되는 서로 다른 두 자연수인 ○와 △의 쌍을 알아보면

$(\bigcirc, \triangle) \rightarrow (1, 36), (2, 18), (3, 12), (4, 9), (9, 4), (12, 3), (18, 2), (36, 1)$

따라서, (\bigcirc, \triangle) 은 모두 8쌍입니다.

8. 분수의 나눗셈식 $2\frac{3}{4} \div \boxed{\textcircled{7}}$ 에서 ⑦이 다음 중 어떤 수일 때 몫이 가장 큰 수가 됩니까?

① $1\frac{3}{8}$

② $\frac{3}{8}$

③ $\frac{8}{3}$

④ $\frac{3}{11}$

⑤ 1

해설

나누는 수 ⑦이 작을수록 몫은 큰 수가 됩니다.

9. 다음 빈칸에 알맞은 수를 차례대로 구한 것을 고르시오.

	\div	
\div	7	$\frac{21}{22}$
$\frac{3}{4}$	$\textcircled{\text{E}}$	$\textcircled{\text{L}}$
$\textcircled{\text{R}}$	$1\frac{1}{11}$	

- ① $\textcircled{\text{T}} 7\frac{1}{3}, \textcircled{\text{L}} \frac{6}{7}, \textcircled{\text{E}} \frac{7}{8}, \textcircled{\text{B}} 9\frac{1}{3}$ ② $\textcircled{\text{T}} 7\frac{1}{3}, \textcircled{\text{L}} \frac{6}{7}, \textcircled{\text{E}} 9\frac{1}{3}, \textcircled{\text{B}} \frac{7}{8}$
 ③ $\textcircled{\text{T}} 7\frac{1}{3}, \textcircled{\text{L}} 9\frac{1}{3}, \textcircled{\text{E}} \frac{6}{7}, \textcircled{\text{B}} \frac{7}{8}$ ④ $\textcircled{\text{T}} 9\frac{1}{3}, \textcircled{\text{L}} 7\frac{1}{3}, \textcircled{\text{E}} \frac{6}{7}, \textcircled{\text{B}} \frac{7}{8}$
 ⑤ $\textcircled{\text{T}} 9\frac{1}{3}, \textcircled{\text{L}} \frac{6}{7}, \textcircled{\text{E}} \frac{7}{8}, \textcircled{\text{B}} 7\frac{1}{3}$

해설

$$\textcircled{\text{T}} = 7 \div \frac{21}{22} = 7 \times \frac{22}{21} = \frac{22}{3} = 7\frac{1}{3},$$

$$\frac{21}{22} \div \textcircled{\text{E}} = 1\frac{1}{11} \rightarrow \textcircled{\text{E}} = \frac{21}{22} \div 1\frac{1}{11} = \frac{21}{22} \times \frac{1}{12} = \frac{7}{8}$$

$$\textcircled{\text{L}} = \frac{3}{4} \div \frac{7}{8} = \frac{3}{4} \times \frac{8}{7} = \frac{6}{7},$$

$$\textcircled{\text{B}} = 7 \div \frac{3}{4} = 7 \times \frac{4}{3} = \frac{28}{3} = 9\frac{1}{3} \text{입니다.}$$