

1. 빈 곳에 알맞은 수를 고르시오.

$$\frac{6}{7} \div 2\frac{2}{5} = \quad$$

- ① $\frac{3}{14}$ ② $\frac{1}{14}$ ③ $1\frac{5}{14}$ ④ $\frac{5}{13}$ ⑤ $\frac{5}{14}$

해설

$$\frac{6}{7} \div 2\frac{2}{5} = \frac{6}{7} \div \frac{12}{5} = \frac{6}{7} \times \frac{5}{12} = \frac{5}{14}$$

2. 안에 알맞은 수를 고르시오.

$$2\frac{4}{9} \div \boxed{} = 1\frac{7}{15}$$

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

해설

$$\begin{aligned} \boxed{} &= 2\frac{4}{9} \div 1\frac{7}{15} = \frac{22}{9} \div \frac{22}{15} \\ &= \frac{22}{9} \times \frac{15}{22} = \frac{5}{3} = 1\frac{2}{3} \end{aligned}$$

3. 안에 알맞은 가분수의 분자와 분모의 합을 구하시오.

$$\frac{8}{3} \div \square = \frac{16}{9}$$

- ① 5 ② 6 ③ 7 ④ 8 ⑤ 9

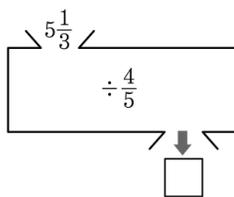
해설

$$\frac{8}{3} \div \square = \frac{16}{9}$$

$$\square = \frac{8}{3} \div \frac{16}{9} = \frac{8}{3} \times \frac{9}{16} = \frac{3}{2}$$

따라서, 분자와 분모의 합은 $2 + 3 = 5$ 입니다.

4. 안에 알맞은 수를 구하시오.

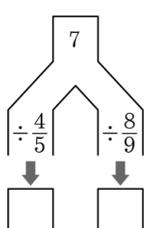


- ① $6\frac{1}{3}$ ② $6\frac{2}{3}$ ③ $5\frac{2}{3}$ ④ $\frac{2}{3}$ ⑤ $1\frac{2}{3}$

해설

$$5\frac{1}{3} \div \frac{4}{5} = \frac{16}{3} \times \frac{5}{4} = \frac{20}{3} = 6\frac{2}{3}$$

5. 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

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

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

6. 다음 식을 보고 Δ 의 값은 무엇입니까?

$$\begin{aligned}\square \times \frac{7}{9} &= \frac{2}{9} \\ \Delta \times \frac{3}{8} &= \square\end{aligned}$$

- ① $\frac{11}{21}$ ② $\frac{13}{21}$ ③ $\frac{14}{21}$ ④ $\frac{16}{21}$ ⑤ $\frac{17}{21}$

해설

$$\square \times \frac{7}{9} = \frac{2}{9} \text{에서 } \square = \frac{2}{9} \div \frac{7}{9} = 2 \div 7 = \frac{2}{7}$$

$$\Delta \times \frac{3}{8} = \square \text{에서}$$

$$\Delta = \square \div \frac{3}{8} = \frac{2}{7} \div \frac{3}{8} = \frac{2}{7} \times \frac{8}{3} = \frac{16}{21}$$

따라서 Δ 은 $\frac{16}{21}$ 입니다.

7. $\frac{9}{8} \div \square$ 에서 \square 안에 어떤 수가 들어가면 몫이 가장 큰 수가 됩니까?

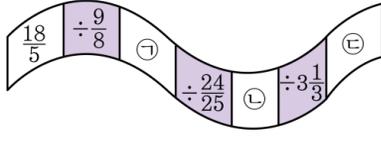
- ① $\frac{1}{3}$ ② $1\frac{1}{2}$ ③ $\frac{3}{4}$ ④ $\frac{6}{7}$ ⑤ $2\frac{2}{5}$

해설

$\frac{9}{8} \div \square$ 에서 \square 가 작을수록 몫이 커집니다.

$$\frac{1}{3} < \frac{3}{4} < \frac{6}{7} < 1\frac{1}{2} < 2\frac{2}{5}$$

8. 다음 빈칸에 알맞은 수를 차례대로 구한 것을 고르시오.



- ① $\ominus 3\frac{1}{5}$, $\omin� \frac{1}{3}$, $\omin� 1$ ② $\omin� 3\frac{1}{5}$, $\omin� 3\frac{1}{3}$, $\omin� 1$
 ③ $\omin� 3\frac{1}{5}$, $\omin� 2\frac{1}{3}$, $\omin� 2$ ④ $\omin� 3\frac{1}{5}$, $\omin� 1\frac{1}{3}$, $\omin� 2$
 ⑤ $\omin� 3\frac{1}{5}$, $\omin� 3\frac{2}{3}$, $\omin� 3$

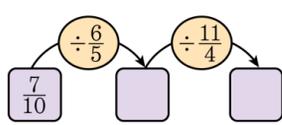
해설

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

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

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

9. 다음 빈 칸에 알맞은 수를 차례대로 구한 것을 구하시오



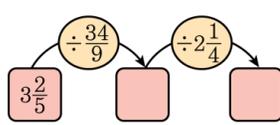
- ① $\frac{5}{12}, \frac{5}{33}$ ② $\frac{5}{12}, \frac{7}{33}$ ③ $\frac{7}{12}, \frac{7}{33}$
 ④ $\frac{7}{12}, \frac{33}{33}$ ⑤ $\frac{11}{12}, \frac{7}{33}$

해설

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

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

10. 다음 빈 칸에 알맞은 수를 차례대로 구한 것을 고르시오.



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

해설

$$3\frac{2}{5} \div \frac{34}{9} = \frac{17}{5} \div \frac{34}{9} = \frac{17}{5} \times \frac{9}{34} = \frac{9}{10}$$

$$\frac{9}{10} \div 2\frac{1}{4} = \frac{9}{10} \div \frac{9}{4} = \frac{9}{10} \times \frac{4}{9} = \frac{2}{5}$$

11. 안에 알맞은 기약분수를 써넣으시오.

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

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

해설

$$\begin{aligned} \frac{1}{5} \times \square \div \frac{9}{14} &= 7 \\ \square &= 7 \times \frac{9}{14} \div \frac{1}{5} = 7 \times \frac{9}{14} \div \frac{1}{5} \\ &= 7 \times \frac{\overset{3}{\cancel{9}}}{\underset{2}{\cancel{14}}} \times \frac{5}{\cancel{6}} = \frac{15}{4} = 3\frac{3}{4} \end{aligned}$$

12. 다음 나눗셈의 몫이 $\frac{3}{4}$ 의 2배일 때, 안에 알맞은 수를 구하시오.

$$\square \div 2\frac{2}{3}$$

- ① 5 ② 1 ③ 2 ④ 3 ⑤ 4

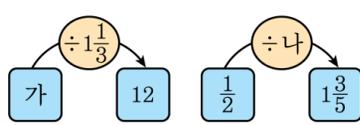
해설

$$\frac{3}{4} \times \frac{1}{2} = \frac{3}{8} \text{ 이므로}$$

$$\square \div 2\frac{2}{3} = \frac{3}{8}$$

$$\square = \frac{3}{8} \times 2\frac{2}{3} = \frac{3}{8} \times \frac{8}{3} = 1$$

13. 가와 나 두 수의 곱을 구하시오.



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

해설

$$\text{가} \div \frac{1}{3} = 12 \rightarrow \text{가} = 12 \times \frac{1}{3} = 16$$

$$\frac{1}{2} \div \text{나} = 1\frac{3}{5} \rightarrow \text{나} = \frac{1}{2} \div 1\frac{3}{5} = \frac{5}{16}$$

따라서, 가와 나의 곱은 $16 \times \frac{5}{16} = 5$ 입니다.

14. 안에 알맞은 수를 써넣으시오.

$$\square \div \frac{1}{2} \div \frac{1}{2} \div \frac{1}{2} \div \frac{1}{2} = 2\frac{1}{4}$$

- ① $\frac{9}{64}$ ② $\frac{9}{32}$ ③ $\frac{9}{16}$ ④ $\frac{5}{16}$ ⑤ $2\frac{1}{16}$

해설

$$\square \div \frac{1}{2} \div \frac{1}{2} \div \frac{1}{2} \div \frac{1}{2} = 2\frac{1}{4}$$

$$\square \times 2 \times 2 \times 2 \times 2 = 2\frac{1}{4}$$

$$\square \times 16 = 2\frac{1}{4}$$

$$\square = 2\frac{1}{4} \div 16 = \frac{9}{64}$$

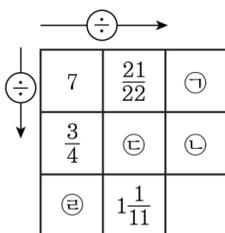
15. 분수의 나눗셈식 $2\frac{3}{4} \div \text{㉠}$ 에서 ㉠이 다음 중 어떤 수일 때 몫이 가장 큰 수가 됩니까?

- ① $1\frac{3}{8}$ ② $\frac{3}{8}$ ③ $\frac{8}{3}$ ④ $\frac{3}{11}$ ⑤ 1

해설

나누는 수 ㉠이 작을수록 몫은 큰 수가 됩니다.

16. 다음 빈칸에 알맞은 수를 차례대로 구한 것을 고르시오.



- ㉠ $7\frac{1}{3}$, ㉡ $\frac{6}{7}$, ㉢ $\frac{7}{8}$, ㉣ $9\frac{1}{3}$ ㉤ $7\frac{1}{3}$, ㉥ $\frac{6}{7}$, ㉦ $9\frac{1}{3}$, ㉧ $\frac{7}{8}$
 ㉢ $7\frac{1}{3}$, ㉣ $9\frac{1}{3}$, ㉤ $\frac{6}{7}$, ㉥ $\frac{7}{8}$ ㉦ $9\frac{1}{3}$, ㉧ $7\frac{1}{3}$, ㉨ $\frac{6}{7}$, ㉩ $\frac{7}{8}$
 ㉤ $9\frac{1}{3}$, ㉥ $\frac{6}{7}$, ㉦ $\frac{7}{8}$, ㉧ $7\frac{1}{3}$

해설

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

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

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

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

17. 다음 빈 칸에 알맞은 수를 차례대로 구한 것을 고르시오.

	$\xrightarrow{\oplus}$		
$\downarrow \oplus$	$\frac{27}{10}$	$\frac{9}{2}$	$\frac{3}{5}$
	$\frac{18}{5}$	$\frac{12}{7}$	\ominus
	\ominus	\oplus	

- ① $\ominus 2\frac{1}{10}$, $\ominus \frac{1}{4}$, $\oplus 2\frac{3}{8}$
 ② $\ominus 2\frac{1}{10}$, $\ominus \frac{3}{4}$, $\oplus 2\frac{5}{8}$
 ③ $\ominus 2\frac{1}{10}$, $\ominus 1\frac{3}{4}$, $\oplus 2\frac{5}{8}$
 ④ $\ominus 2\frac{2}{10}$, $\ominus \frac{3}{4}$, $\oplus 2\frac{3}{8}$
 ⑤ $\ominus 2\frac{3}{10}$, $\ominus 1\frac{1}{4}$, $\oplus 2\frac{1}{8}$

해설

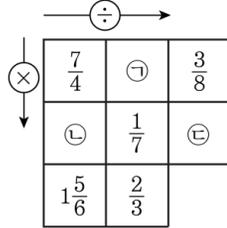
$$\frac{18}{5} \div \frac{12}{7} = \frac{18}{5} \times \frac{7}{12} = \frac{21}{10} = 2\frac{1}{10}$$

$$\frac{27}{10} \div \frac{18}{5} = \frac{27}{10} \times \frac{5}{18} = \frac{3}{4}$$

$$\frac{9}{2} \div \frac{12}{7} = \frac{9}{2} \times \frac{7}{12} = \frac{21}{8} = 2\frac{5}{8}$$

$$\ominus = 2\frac{1}{10}, \ominus = \frac{3}{4}, \oplus = 2\frac{5}{8}$$

18. 다음 빈 칸에 알맞은 수를 차례대로 구한 것을 고르시오.



- | | |
|---|--|
| <p>① $\ominus 4\frac{1}{3}, \oplus \frac{1}{21}, \oplus 3\frac{1}{3}$</p> <p>② $\ominus 3\frac{2}{3}, \oplus \frac{1}{21}, \oplus 4\frac{1}{3}$</p> <p>③ $\ominus 4\frac{2}{3}, \oplus 1\frac{1}{21}, \oplus 7\frac{1}{3}$</p> <p>④ $\ominus 4\frac{2}{3}, \oplus 1\frac{2}{21}, \oplus 6\frac{1}{3}$</p> <p>⑤ $\ominus 4\frac{1}{3}, \oplus 1\frac{2}{21}, \oplus 5\frac{1}{3}$</p> | <p>② $\ominus 3\frac{2}{3}, \oplus \frac{1}{21}, \oplus 4\frac{1}{3}$</p> <p>④ $\ominus 4\frac{2}{3}, \oplus 1\frac{2}{21}, \oplus 6\frac{1}{3}$</p> |
|---|--|

해설

$$\frac{7}{4} \div \ominus = \frac{3}{8},$$

$$\ominus = \frac{7}{4} \div \frac{3}{8} = \frac{7}{4} \times \frac{8}{3} = \frac{14}{3} = 4\frac{2}{3}$$

$$\frac{7}{4} \times \otimes = 1\frac{5}{6},$$

$$\otimes = 1\frac{5}{6} \div \frac{7}{4} = \frac{11}{6} \times \frac{4}{7} = \frac{22}{21} = 1\frac{1}{21}$$

$$\oplus = 1\frac{1}{21} \div \frac{1}{7} = \frac{22}{21} \times 7 = \frac{22}{3} = 7\frac{1}{3}$$

19. 다음 나눗셈을 계산하였더니 $7\frac{4}{5}$ 가 되었습니다. 어떤 수 \square 를 $\frac{21}{30}$ 로 나누었을 때의 몫을 구하시오.

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

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

해설

$$2\frac{4}{7} \times \square \times 3 = 7\frac{4}{5}$$

$$\frac{18}{7} \times \square \times 3 = \frac{39}{5}$$

$$\frac{54}{7} \times \square = \frac{39}{5}$$

$$\square = \frac{39}{5} \div \frac{54}{7} = \frac{13}{5} \times \frac{7}{54} = \frac{91}{90}$$

$$\square \div \frac{21}{30} = \frac{91}{90} \div \frac{21}{30} = \frac{13}{90} \times \frac{30}{21} = \frac{13}{9} = 1\frac{4}{9}$$

20. 다음 식을 보고, 다의 값을 구하시오.

$$\text{가} \div \text{다} = 4\frac{2}{5} \quad \text{나} \div \text{가} = \frac{1}{3} \quad \text{나} = 2\frac{1}{4} \div \frac{5}{7}$$

- ① $2\frac{11}{88}$ ② $2\frac{23}{88}$ ③ $\frac{15}{88}$ ④ $2\frac{13}{88}$ ⑤ $1\frac{13}{88}$

해설

$$\text{나} = 2\frac{1}{4} \div \frac{5}{7} = \frac{9}{4} \div \frac{5}{7} = \frac{9}{4} \times \frac{7}{5} = \frac{63}{20}$$

$$\text{나} \div \text{가} = \frac{63}{20} \div \text{가} = \frac{1}{3} \text{ 이므로}$$

$$\text{가} = \frac{63}{20} \div \frac{1}{3} = \frac{63}{20} \times 3 = \frac{189}{20}$$

$$\text{가} \div \text{다} = \frac{189}{20} \div \text{다} = 4\frac{2}{5} \text{ 이므로}$$

$$\text{다} = \frac{189}{20} \div \frac{22}{5} = \frac{189}{20} \times \frac{5}{22} = \frac{189}{88} = 2\frac{13}{88}$$

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

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

- ① 4쌍 ② 5쌍 ③ 6쌍 ④ 7쌍 ⑤ 8쌍

해설

곱해서 36이 되는 서로 다른 두 자연수인 ○와 △의 쌍을 알아보면

(○, △) → (1, 36), (2, 18), (3, 12), (4, 9), (9, 4), (12, 3),
(18, 2), (36, 1)

따라서, (○, △)은 모두 8쌍입니다.