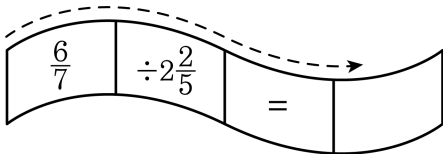


1. 빈 곳에 알맞은 수를 고르시오.



① $\frac{3}{14}$

② $\frac{1}{14}$

③ $1\frac{5}{14}$

④ $\frac{5}{13}$

⑤ $\frac{5}{14}$

해설

$$\frac{6}{7} \div 2\frac{2}{5} = \frac{6}{7} \div \frac{12}{5} = \frac{6}{7} \times \frac{5}{\cancel{12}_2} = \frac{5}{14}$$

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

$$\boxed{} = 2\frac{4}{9} \div 1\frac{7}{15} = \frac{22}{9} \div \frac{22}{15}$$

$$= \frac{\overset{1}{\cancel{22}}}{\underset{3}{9}} \times \frac{\overset{5}{\cancel{15}}}{\underset{1}{\cancel{22}}} = \frac{5}{3} = 1\frac{2}{3}$$

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

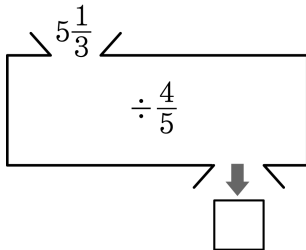
해설

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

$$\square = \frac{8}{3} \div \frac{16}{9} = \frac{\overset{1}{\cancel{8}}}{\underset{1}{\cancel{3}}} \times \frac{\overset{3}{\cancel{9}}}{\underset{2}{\cancel{16}}} = \frac{3}{2}$$

따라서, 분자와 분모의 합은 $2 + 3 = 5$ 입니다.

4. 안에 알맞은 수를 구하시오.



① $6\frac{1}{3}$

② $6\frac{2}{3}$

③ $5\frac{2}{3}$

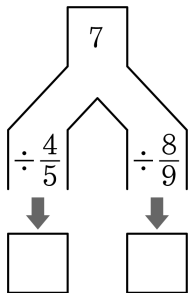
④ $\frac{2}{3}$

⑤ $1\frac{2}{3}$

해설

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

5. 다음 빈 칸에 알맞은 수를 차례대로 구한 것을 고르시오.



① $8\frac{3}{4}, 7\frac{7}{8}$

② $8\frac{3}{4}, 6\frac{7}{8}$

③ $8\frac{1}{4}, 5\frac{3}{8}$

④ $8\frac{3}{4}, 5\frac{3}{8}$

⑤ $8\frac{1}{4}, 6\frac{5}{8}$

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?

$$\square \times \frac{7}{9} = \frac{2}{9}$$
$$\Delta \times \frac{3}{8} = \square$$

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 $\frac{6}{7}$

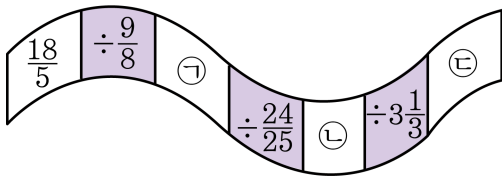
⑤ $2\frac{2}{5}$

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 $\ominus 3\frac{1}{5}$, $\odot \frac{1}{3}$, $\ominus 1$

② $\ominus 3\frac{1}{5}$, $\odot 3\frac{1}{3}$, $\ominus 1$

③ $\ominus 3\frac{1}{5}$, $\odot 2\frac{1}{3}$, $\ominus 2$

④ $\ominus 3\frac{1}{5}$, $\odot 1\frac{1}{3}$, $\ominus 2$

⑤ $\ominus 3\frac{1}{5}$, $\odot 3\frac{2}{3}$, $\ominus 3$

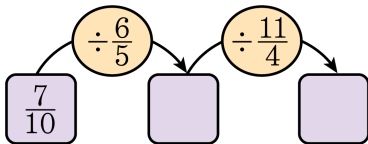
해설

$$\frac{18}{5} \div \frac{9}{8} = \frac{\cancel{18}^2}{5} \times \frac{8}{\cancel{9}_1} = \frac{16}{5} = 3\frac{1}{5}$$

$$\frac{16}{5} \div \frac{24}{25} = \frac{\cancel{16}^2}{5} \times \frac{\cancel{25}^5}{\cancel{24}_3} = \frac{10}{3} = 3\frac{1}{3}$$

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

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 $\frac{7}{12}, \frac{13}{33}$

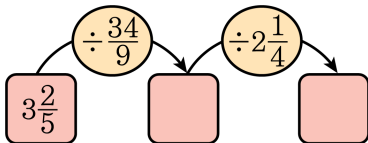
⑤ $\frac{11}{12}, \frac{7}{33}$

해설

$$\frac{7}{10} \div \frac{6}{5} = \frac{7}{\cancel{10}_2} \times \frac{1}{\cancel{6}_3} = \frac{7}{12}$$

$$\frac{7}{12} \div \frac{11}{4} = \frac{7}{\cancel{12}_3} \times \frac{1}{\cancel{11}_1} = \frac{7}{33}$$

10. 다음 빈 칸에 알맞은 수를 차례대로 구한 것을 고르시오.



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

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

③ $\frac{9}{10}, \frac{3}{5}$

해설

$$3\frac{2}{5} \div \frac{34}{9} = \frac{17}{5} \div \frac{34}{9} = \frac{17}{5} \times \frac{9}{\cancel{34}_2} = \frac{9}{10}$$

$$\frac{9}{10} \div 2\frac{1}{4} = \frac{9}{10} \div \frac{9}{4} = \frac{\cancel{9}_1}{10} \times \frac{4}{\cancel{9}_1} = \frac{2}{5}$$

11. 안에 알맞은 기약분수를 써넣으시오.

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

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

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

$$\square = 7 \times \frac{9}{14} \div 1\frac{1}{5} = 7 \times \frac{9}{14} \div \frac{6}{5}$$

$$= \cancel{7}^1 \times \frac{\cancel{9}^3}{\cancel{14}_2} \times \frac{5}{\cancel{6}_2} = \frac{15}{4} = 3\frac{3}{4}$$

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

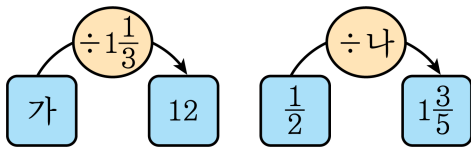
해설

$$\frac{3}{\cancel{4}_2} \times \cancel{2}^1 = \frac{3}{2} \text{ 이므로}$$

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

$$\square = \frac{3}{2} \times 2\frac{2}{3} = \frac{\cancel{3}^1}{\cancel{2}_1} \times \frac{\cancel{8}^4}{\cancel{3}_1} = 4$$

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

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

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

따라서, 가와 나의 곱은 $\cancel{16} \times \frac{5}{\cancel{16}_1} = 5$ 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 $2\frac{3}{4} \div \boxed{\textcircled{7}}$ 에서 $\textcircled{7}$ 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 $\textcircled{7}$ 이 작을수록 몫은 큰 수가 됩니다.

16. 다음 빈칸에 알맞은 수를 차례대로 구한 것을 고르시오.

$\div \rightarrow$

$\div$	7	$\frac{21}{22}$	㉠
$\downarrow$	$\frac{3}{4}$	㉡	㉢
	㉣	$1\frac{1}{11}$	

① ㉠ $7\frac{1}{3}$, ㉡ $\frac{6}{7}$, ㉢ $\frac{7}{8}$, ㉣ $9\frac{1}{3}$
 ③ ㉠ $7\frac{1}{3}$, ㉡ $9\frac{1}{3}$, ㉢ $\frac{6}{7}$, ㉣ $\frac{7}{8}$
 ⑤ ㉠ $9\frac{1}{3}$, ㉡ $\frac{6}{7}$, ㉢ $\frac{7}{8}$, ㉣ $7\frac{1}{3}$

② ㉠ $7\frac{1}{3}$, ㉡ $\frac{6}{7}$, ㉢ $9\frac{1}{3}$, ㉣ $\frac{7}{8}$
 ④ ㉠ $9\frac{1}{3}$, ㉡ $7\frac{1}{3}$, ㉢ $\frac{6}{7}$, ㉣ $\frac{7}{8}$

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.

$\xrightarrow{\div}$

$\downarrow \div$	$\frac{27}{10}$	$\frac{9}{2}$	$\frac{3}{5}$
	$\frac{18}{5}$	$\frac{12}{7}$	㉠
	㉡	㉢	

- ① ㉠ $2\frac{1}{10}$, ㉡ $1\frac{1}{4}$, ㉢ $2\frac{3}{8}$
 ③ ㉠ $2\frac{1}{10}$, ㉡ $1\frac{3}{4}$, ㉢ $2\frac{5}{8}$
 ⑤ ㉠ $2\frac{3}{10}$, ㉡ $1\frac{1}{4}$, ㉢ $2\frac{1}{8}$

- ② ㉠ $2\frac{1}{10}$, ㉡ $\frac{3}{4}$, ㉢ $2\frac{5}{8}$
 ④ ㉠ $2\frac{2}{10}$, ㉡ $\frac{3}{4}$, ㉢ $2\frac{3}{8}$

해설

$$\frac{18}{5} \div \frac{12}{7} = \frac{\overset{3}{\cancel{18}}}{5} \times \frac{7}{\underset{2}{\cancel{12}}} = \frac{21}{10} = 2\frac{1}{10}$$

$$\frac{27}{10} \div \frac{18}{5} = \frac{\overset{3}{\cancel{27}}}{\underset{2}{\cancel{10}}} \times \frac{\overset{1}{\cancel{5}}}{\underset{2}{\cancel{18}}} = \frac{3}{4}$$

$$\frac{9}{2} \div \frac{12}{7} = \frac{\overset{3}{\cancel{9}}}{2} \times \frac{7}{\underset{4}{\cancel{12}}} = \frac{21}{8} = 2\frac{5}{8}$$

$$\text{㉠} = 2\frac{1}{10}, \text{㉡} = \frac{3}{4}, \text{㉢} = 2\frac{5}{8}$$

18. 다음 빈 칸에 알맞은 수를 차례대로 구한 것을 고르시오.

$\div$

$\times$	$\frac{7}{4}$	㉠	$\frac{3}{8}$
	㉡	$\frac{1}{7}$	㉢
	$1\frac{5}{6}$	$\frac{2}{3}$	

① ㉠ $4\frac{1}{3}$, ㉡ $\frac{1}{21}$, ㉢ $3\frac{1}{3}$
 ③ ㉠ $4\frac{2}{3}$, ㉡ $1\frac{1}{21}$, ㉢ $7\frac{1}{3}$
 ⑤ ㉠ $4\frac{1}{3}$, ㉡ $1\frac{2}{21}$, ㉢ $5\frac{1}{3}$

② ㉠ $3\frac{2}{3}$, ㉡ $\frac{1}{21}$, ㉢ $4\frac{1}{3}$
 ④ ㉠ $4\frac{2}{3}$, ㉡ $1\frac{2}{21}$, ㉢ $6\frac{1}{3}$

해설

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

$$\text{㉠} = \frac{7}{4} \div \frac{3}{8} = \frac{7}{\cancel{4}_1} \times \frac{\cancel{8}^2}{3} = \frac{14}{3} = 4\frac{2}{3}$$

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

$$\text{㉡} = 1\frac{5}{6} \div \frac{7}{4} = \frac{11}{\cancel{6}_3} \times \frac{\cancel{4}^2}{7} = \frac{22}{21} = 1\frac{1}{21}$$

$$\text{㉢} = 1\frac{1}{21} \div \frac{1}{7} = \frac{22}{\cancel{21}_3} \times \frac{1}{\cancel{7}} = \frac{22}{3} = 7\frac{1}{3}$$

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

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

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

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

$$\square = \frac{39}{5} \div \frac{54}{7} = \frac{39}{5} \times \frac{7}{\cancel{54}^{13}_{18}} = \frac{91}{90}$$

$$\square \div \frac{21}{30} = \frac{91}{90} \div \frac{21}{30} = \frac{91}{\cancel{90}^{13}_{30}} \times \frac{\cancel{30}^1_{21}}{\cancel{21}_3} = \frac{13}{9} = 1\frac{4}{9}$$

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

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

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

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

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

$$\text{다} = \frac{189}{20} \div \frac{22}{5} = \frac{189}{\cancel{20}_4} \times \frac{\cancel{5}^1}{22} = \frac{189}{88} = 2\frac{13}{88}$$

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

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

① 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

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

따라서, (○, △)은 모두 8쌍입니다.