

1. 다음 중 두 수가 서로 역수인 관계로 짝지어진 것은?

① $-1, 0$

② $-\frac{3}{4}, -\frac{4}{3}$

③ $\frac{1}{2}, -2$

④ $1, -1$

⑤ $\frac{3}{2}, -\frac{2}{3}$

해설

곱해서 1 이 되는 두 수를 찾으면 된다.

① -1 의 역수는 -1

③ $\frac{1}{2}$ 의 역수는 2

④ 1 의 역수는 1

⑤ $\frac{3}{2}$ 의 역수는 $\frac{2}{3}$

2. $(-20) \div \left(-\frac{5}{3}\right) \times \frac{15}{14}$ 를 계산하면?

① -2

② $-\frac{11}{3}$

③ $\frac{31}{5}$

④ $\frac{53}{6}$

⑤ $\frac{90}{7}$

해설

$$(-20) \times \left(-\frac{3}{5}\right) \times \frac{15}{14} = \frac{90}{7}$$

3. 다음 중 계산 결과가 옳은 것은?

$$\textcircled{1} \left(-\frac{3}{4}\right) \div \left(-\frac{9}{2}\right) \times 6 = \frac{1}{36}$$

$$\textcircled{2} \frac{2}{3} \times \left(-\frac{9}{10}\right) \div \left(-\frac{6}{5}\right) = \frac{18}{25}$$

$$\textcircled{3} \left(-\frac{2}{5}\right) \div \left(-\frac{4}{9}\right) \times (-20) = -18$$

$$\textcircled{4} \left(-\frac{9}{10}\right) \times \frac{2}{3} \div \left(-\frac{6}{5}\right) = \frac{1}{3}$$

$$\textcircled{5} \frac{1}{4} \div \left(-\frac{1}{10}\right) \div (-2)^2 = \frac{5}{8}$$

해설

$$\textcircled{1} \left(-\frac{3}{4}\right) \div \left(-\frac{9}{2}\right) \times 6 = \left(-\frac{3}{4}\right) \times \left(-\frac{2}{9}\right) \times 6 = 1$$

$$\textcircled{2} \frac{2}{3} \times \left(-\frac{9}{10}\right) \div \left(-\frac{6}{5}\right) = \frac{2}{3} \times \left(-\frac{9}{10}\right) \times \left(-\frac{5}{6}\right) = \frac{1}{2}$$

$$\textcircled{3} \left(-\frac{2}{5}\right) \div \left(-\frac{4}{9}\right) \times (-20) = \left(-\frac{2}{5}\right) \times \left(-\frac{9}{4}\right) \times (-20) \\ = -18$$

$$\textcircled{4} \left(-\frac{9}{10}\right) \times \frac{2}{3} \div \left(-\frac{6}{5}\right) = \left(-\frac{9}{10}\right) \times \frac{2}{3} \times \left(-\frac{5}{6}\right) = \frac{1}{2}$$

$$\textcircled{5} \frac{1}{4} \div \left(-\frac{1}{10}\right) \div (-2)^2 = \frac{1}{4} \times (-10) \times \frac{1}{4} = -\frac{5}{8}$$