

正の数、負の数の乗法と除法の混じった式

正の数、負の数の乗法と除法の混じった式は、**乗法だけの式**にして計算する。

$$\begin{aligned}
 1 \quad & (-3) \times \frac{1}{2} \div \left(-\frac{3}{4}\right) \\
 & = (-3) \times \frac{1}{2} \times \left(-\frac{4}{3}\right) \\
 & = + \left(\overset{1}{\cancel{3}} \times \frac{1}{\underset{1}{\cancel{2}}} \times \frac{\overset{2}{\cancel{4}}}{\underset{1}{\cancel{3}}}\right) \\
 & = 2
 \end{aligned}$$

1 次の計算をなさい。

$$\textcircled{1} \quad \left(-\frac{2}{5}\right) \div \frac{3}{7} \times \left(-\frac{1}{4}\right)$$

$$\textcircled{2} \quad \frac{1}{4} \times \left(-\frac{5}{2}\right) \div (-2)$$

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

$$\textcircled{4} \quad \frac{1}{5} \times \frac{5}{6} \div (-3)$$

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 & = + \left(\overset{1}{\cancel{3}} \times \frac{1}{\underset{1}{\cancel{2}}} \times \overset{2}{\cancel{4}} \underset{1}{\cancel{3}}\right) \\
 & = 2
 \end{aligned}$$

1 次の計算をなさい。

$$\begin{aligned}
 ① \quad & \left(-\frac{2}{5}\right) \div \frac{3}{7} \times \left(-\frac{1}{4}\right) \\
 & = \left(-\frac{2}{5}\right) \times \frac{7}{3} \times \left(-\frac{1}{4}\right) \\
 & = + \left(\overset{1}{\cancel{2}} \times \frac{7}{3} \times \frac{1}{\underset{2}{\cancel{4}}}\right) \\
 & = \frac{7}{30}
 \end{aligned}$$

$$\begin{aligned}
 ② \quad & \frac{1}{4} \times \left(-\frac{5}{2}\right) \div (-2) \\
 & = \frac{1}{4} \times \left(-\frac{5}{2}\right) \times \left(-\frac{1}{2}\right) \\
 & = + \left(\frac{1}{4} \times \frac{5}{2} \times \frac{1}{2}\right) \\
 & = \frac{5}{16}
 \end{aligned}$$

$$\begin{aligned}
 ③ \quad & \left(-\frac{1}{2}\right) \times \left(-\frac{2}{3}\right) \div \left(-\frac{5}{6}\right) \\
 & = \left(-\frac{1}{2}\right) \times \left(-\frac{2}{3}\right) \times \left(-\frac{6}{5}\right) \\
 & = - \left(\overset{1}{\cancel{2}} \times \overset{1}{\cancel{2}} \times \overset{2}{\cancel{6}} \underset{1}{\cancel{5}}\right) \\
 & = -\frac{2}{5}
 \end{aligned}$$

$$\begin{aligned}
 ④ \quad & \frac{1}{5} \times \frac{5}{6} \div (-3) \\
 & = \frac{1}{5} \times \frac{5}{6} \times \left(-\frac{1}{3}\right) \\
 & = - \left(\overset{1}{\cancel{5}} \times \overset{1}{\cancel{5}} \times \frac{1}{6} \times \frac{1}{3}\right) \\
 & = -\frac{1}{18}
 \end{aligned}$$