数学

正の数、負の数
分数の除法

1 次の計算をしなさい。

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

② $\left(-\frac{4}{5}\right) \div \frac{2}{3}$

③ $\left(-\frac{1}{6}\right) \div \left(-\frac{3}{7}\right)$

④ $\frac{2}{3} \div \left(-\frac{4}{5}\right)$

⑤ $\frac{4}{9} \div \left(-\frac{5}{6}\right)$

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

⑦ $\left(-\frac{3}{4}\right) \div \left(-\frac{3}{8}\right)$

⑧ $\left(-\frac{1}{4}\right) \div \frac{3}{8}$

⑨ $\frac{2}{9} \div \left(-\frac{2}{5}\right)$

⑩ $\left(-\frac{5}{6}\right) \div \frac{4}{9}$

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

$= \frac{3}{4} \times \left(-\frac{5}{2}\right)$

$= -\frac{15}{8} = -1\frac{7}{8}$

② $\left(-\frac{4}{5}\right) \div \frac{2}{3}$

$= \left(-\frac{\overset{2}{\cancel{4}}}{5}\right) \times \frac{3}{\underset{1}{\cancel{2}}}$

$= -\frac{6}{5} = -1\frac{1}{5}$

③ $\left(-\frac{1}{6}\right) \div \left(-\frac{3}{7}\right)$

$= \left(-\frac{1}{6}\right) \times \left(-\frac{7}{3}\right)$

$= \frac{7}{18}$

④ $\frac{2}{3} \div \left(-\frac{4}{5}\right)$

$= \frac{\overset{1}{\cancel{2}}}{3} \times \left(-\frac{5}{\underset{2}{\cancel{4}}}\right)$

$= -\frac{5}{6}$

⑤ $\frac{4}{9} \div \left(-\frac{5}{6}\right)$

$= \frac{4}{\underset{3}{\cancel{9}}} \times \left(-\frac{\overset{2}{\cancel{6}}}{5}\right)$

$= -\frac{8}{15}$

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

$= \left(-\frac{1}{3}\right) \times \left(-\frac{5}{2}\right)$

$= \frac{5}{6}$

⑦ $\left(-\frac{3}{4}\right) \div \left(-\frac{3}{8}\right)$

$= \left(-\frac{\overset{1}{\cancel{3}}}{\underset{1}{\cancel{4}}}\right) \times \left(-\frac{\overset{2}{\cancel{8}}}{\underset{1}{\cancel{3}}}\right)$

$= 2$

⑧ $\left(-\frac{1}{4}\right) \div \frac{3}{8}$

$= \left(-\frac{1}{\underset{1}{\cancel{4}}}\right) \times \frac{\overset{2}{\cancel{8}}}{3}$

$= -\frac{2}{3}$

⑨ $\frac{2}{9} \div \left(-\frac{2}{5}\right)$

$= \frac{\overset{1}{\cancel{2}}}{9} \times \left(-\frac{5}{\underset{1}{\cancel{2}}}\right)$

$= -\frac{5}{9}$

⑩ $\left(-\frac{5}{6}\right) \div \frac{4}{9}$

$= \left(-\frac{5}{\underset{2}{\cancel{6}}}\right) \times \frac{\overset{3}{\cancel{9}}}{4}$

$= -\frac{15}{8} = -1\frac{7}{8}$