数学

正の数、負の数
分数の除法

1 次の計算をしなさい。

① $\frac{2}{9} \div \left(-\frac{2}{3}\right)$

② $\left(-\frac{5}{6}\right) \div \frac{3}{4}$

③ $\left(-\frac{5}{7}\right) \div \left(-\frac{5}{8}\right)$

④ $\frac{1}{2} \div \left(-\frac{5}{6}\right)$

⑤ $\frac{4}{5} \div \left(-\frac{2}{7}\right)$

⑥ $\left(-\frac{1}{3}\right) \div \left(-\frac{4}{3}\right)$

⑦ $\left(-\frac{2}{9}\right) \div \left(-\frac{2}{3}\right)$

⑧ $\left(-\frac{3}{4}\right) \div \frac{3}{5}$

⑨ $\frac{1}{2} \div \left(-\frac{2}{3}\right)$

⑩ $\left(-\frac{1}{6}\right) \div \frac{5}{8}$

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① $\frac{2}{9} \div \left(-\frac{2}{3}\right)$

$= \frac{\overset{1}{\cancel{2}}}{\underset{3}{\cancel{9}}} \times \left(-\frac{\overset{1}{\cancel{3}}}{\underset{1}{\cancel{2}}}\right)$

$= -\frac{1}{3}$

② $\left(-\frac{5}{6}\right) \div \frac{3}{4}$

$= \left(-\frac{5}{\underset{2}{\cancel{6}}}\right) \times \frac{\overset{1}{\cancel{3}}}{4}$

$= -\frac{5}{8}$

③ $\left(-\frac{5}{7}\right) \div \left(-\frac{5}{8}\right)$

$= \left(-\frac{\overset{1}{\cancel{5}}}{7}\right) \times \left(-\frac{8}{\underset{1}{\cancel{5}}}\right)$

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

④ $\frac{1}{2} \div \left(-\frac{5}{6}\right)$

$= \frac{1}{\underset{1}{\cancel{2}}} \times \left(-\frac{\overset{3}{\cancel{6}}}{5}\right)$

$= -\frac{3}{5}$

⑤ $\frac{4}{5} \div \left(-\frac{2}{7}\right)$

$= \frac{\overset{2}{\cancel{4}}}{5} \times \left(-\frac{7}{\underset{1}{\cancel{2}}}\right)$

$= -\frac{14}{5} = -2\frac{4}{5}$

⑥ $\left(-\frac{1}{3}\right) \div \left(-\frac{4}{3}\right)$

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

$= \frac{1}{2}$

⑦ $\left(-\frac{2}{9}\right) \div \left(-\frac{2}{3}\right)$

$= \left(-\frac{\overset{1}{\cancel{2}}}{\underset{3}{\cancel{9}}}\right) \times \left(-\frac{\overset{1}{\cancel{3}}}{\underset{1}{\cancel{2}}}\right)$

$= \frac{1}{3}$

⑧ $\left(-\frac{3}{4}\right) \div \frac{3}{5}$

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

$= -\frac{5}{4} = -1\frac{1}{4}$

⑨ $\frac{1}{2} \div \left(-\frac{2}{3}\right)$

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

$= -\frac{3}{4}$

⑩ $\left(-\frac{1}{6}\right) \div \frac{5}{8}$

$= \left(-\frac{1}{\underset{3}{\cancel{6}}}\right) \times \frac{\overset{4}{\cancel{8}}}{5}$

$= -\frac{4}{15}$