

Notes

Example 1:

$$\begin{aligned} & \frac{2}{5} \div \frac{3}{10} \\ &= \frac{2}{\cancel{5}_1} \times \frac{\cancel{10}^2}{3} \\ &= \frac{2 \times 2}{1 \times 3} \\ &= \frac{4}{3} \end{aligned}$$

Example 2:

$$\begin{aligned} & \frac{3}{4} \div 2 \\ &= \frac{3}{4} \div \frac{2}{1} \\ &= \frac{3}{4} \times \frac{1}{2} \\ &= \frac{3 \times 1}{4 \times 2} \\ &= \frac{3}{8} \end{aligned}$$

Practice Questions

Evaluate each of the following. Make sure to simplify your answers.

$$\begin{aligned} 1) \frac{-1}{5} \div \frac{7}{4} &= \frac{-1}{5} \times \frac{4}{7} \\ &= \frac{-4}{35} \end{aligned}$$

$$\begin{aligned} 2) \frac{-1}{2} \div \frac{5}{4} &= \frac{-1}{2} \times \frac{4}{5} \\ &= \frac{-2}{5} \end{aligned}$$

$$\begin{aligned} 3) \frac{3}{2} \div \frac{-10}{7} &= \frac{3}{2} \times \frac{-7}{10} \\ &= \frac{-21}{20} \end{aligned}$$

$$\begin{aligned} 4) \frac{1}{2} \div \frac{8}{7} &= \frac{1}{2} \times \frac{7}{8} \\ &= \frac{7}{16} \end{aligned}$$

$$\begin{aligned} 5) \frac{-9}{5} \div 2 &= \frac{-9}{5} \div \frac{2}{1} \\ &= \frac{-9}{5} \times \frac{1}{2} \\ &= \frac{-9}{10} \end{aligned}$$

$$\begin{aligned} 6) 3 \div \frac{2}{5} &= \frac{3}{1} \times \frac{5}{2} \\ &= \frac{15}{2} \end{aligned}$$

$$\begin{aligned} 7) \frac{2}{5} \div \frac{-5}{6} &= \frac{2}{5} \times \frac{-6}{5} \\ &= \frac{-12}{25} \end{aligned}$$

$$\begin{aligned} 8) \frac{1}{7} \div \frac{9}{7} &= \frac{1}{7} \times \frac{7}{9} \\ &= \frac{1}{9} \end{aligned}$$

$$\begin{aligned} 9) \frac{-1}{12} \div \frac{1}{9} &= \frac{-1}{12} \times \frac{9}{1} \\ &= \frac{-3}{4} \end{aligned}$$

$$\begin{aligned} 10) \frac{-4}{9} \div \frac{1}{3} &= \frac{-4}{9} \times \frac{3}{1} \\ &= \frac{-4}{3} \end{aligned}$$

$$\begin{aligned} 11) \frac{-10}{3} \div 7 &= \frac{-10}{3} \div \frac{7}{1} \\ &= \frac{-10}{3} \times \frac{1}{7} \\ &= \frac{-10}{21} \end{aligned}$$

$$\begin{aligned} 12) \frac{7}{4} \div \frac{2}{3} &= \frac{7}{4} \times \frac{3}{2} \\ &= \frac{21}{8} \end{aligned}$$