

Name _____

Dividing Mixed Numbers

Step 1: Convert each mixed number into an improper fraction.

Step 2 : Divide the fractions and simplify them if possible.

$$\begin{aligned} 1. \quad & 1 \frac{1}{4} \div 2 \frac{1}{2} \\ &= \frac{5}{4} \div \frac{5}{2} \\ &= \frac{\cancel{1}^1 \cancel{5}^1}{\cancel{2}^1 \cancel{4}^1} \times \frac{\cancel{2}^1}{\cancel{5}^1} \\ &= \frac{1}{2} \end{aligned}$$

$$\begin{aligned} 2. \quad & 4 \frac{3}{4} \div 5 \frac{7}{8} \\ &= \frac{19}{4} \div \frac{47}{8} \\ &= \frac{\cancel{1}^1 \cancel{19}^1}{\cancel{4}^1} \times \frac{\cancel{8}^2}{\cancel{47}^1} \\ &= \frac{10}{47} \end{aligned}$$

$$\begin{aligned} 3. \quad & 3 \frac{5}{9} \div 2 \frac{5}{18} \\ &= \frac{32}{9} \div \frac{41}{18} \\ &= \frac{\cancel{1}^1 \cancel{32}^1}{\cancel{9}^1} \times \frac{\cancel{18}^2}{\cancel{41}^1} \\ &= \frac{64}{41} = 1 \frac{23}{41} \end{aligned}$$

$$\begin{aligned} 4. \quad & 5 \frac{3}{5} \div 1 \frac{7}{15} \\ &= \frac{28}{5} \div \frac{22}{15} \\ &= \frac{\cancel{14}^2 \cancel{28}^1}{\cancel{1}^1 \cancel{5}^1} \times \frac{\cancel{15}^3}{\cancel{22}^1} \\ &= \frac{42}{11} = 3 \frac{9}{11} \end{aligned}$$

$$\begin{aligned} 5. \quad & 2 \frac{9}{16} \div 2 \frac{1}{20} \\ &= \frac{41}{16} \div \frac{41}{20} \\ &= \frac{\cancel{1}^1 \cancel{41}^1}{\cancel{4}^1 \cancel{16}^1} \times \frac{\cancel{20}^5}{\cancel{41}^1} \\ &= \frac{5}{4} = 1 \frac{1}{4} \end{aligned}$$

$$\begin{aligned} 6. \quad & 5 \frac{3}{8} \div 3 \frac{9}{16} \\ &= \frac{43}{8} \div \frac{57}{16} \\ &= \frac{\cancel{1}^1 \cancel{43}^1}{\cancel{8}^1} \times \frac{\cancel{16}^2}{\cancel{57}^1} \\ &= \frac{86}{57} = 1 \frac{29}{57} \end{aligned}$$