

6.5 Dividing Fractions & Mixed Numbers

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Dividing Proper Fractions

- 1 Flip the 2nd fraction (reciprocal)
- 2 Multiply

Ex #1

$$a) \frac{7}{10} \div \frac{3}{5}$$

$$= \frac{7}{10} \times \frac{5}{3}$$

$$= \frac{35}{30}$$

$$= \frac{7}{6} = \boxed{1\frac{1}{6}}$$

$$b) 2 \div \frac{3}{4}$$

$$= \frac{2}{1} \div \frac{3}{4}$$

$$= \frac{2}{1} \times \frac{4}{3}$$

$$= \frac{8}{3} = \boxed{2\frac{2}{3}}$$

Dividing Mixed Fractions

- 1 Change to improper
- 2 2nd fraction flips
- 3 Multiply

Ex. #2

$$a) 1\frac{3}{4} \div 2\frac{1}{2}$$

$$= \frac{7}{4} \div \frac{5}{2}$$

$$= \frac{7}{4} \times \frac{2}{5}$$

$$= \frac{14}{20} = \boxed{1\frac{7}{10}}$$

$$b) 4\frac{4}{5} \div 2\frac{3}{4}$$

$$= \frac{24}{5} \div \frac{11}{4}$$

$$= \frac{24}{5} \times \frac{4}{11}$$

$$= \frac{96}{55} = \boxed{1\frac{41}{55}}$$

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