

Lesson 2.4 Dividing Mixed Numbers

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

Rename $3\frac{2}{5}$ as $\frac{17}{5}$.

$$\frac{17}{5} \div \frac{4}{1}$$

Rename 4 as $\frac{4}{1}$.

$$\frac{9}{20} \times \frac{1}{4} = \frac{17}{20}$$

Multiply by the reciprocal.

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

$$\frac{13}{3} \div \frac{11}{4}$$

Rename.

$$\frac{13}{3} \times \frac{4}{11} = \frac{52}{33} = 1\frac{19}{33}$$

Multiply by the reciprocal.

Divide. Write answers in simplest form.

a

1. $2\frac{1}{2} \div 3\frac{1}{3}$

b

$$1\frac{1}{8} \div 2\frac{1}{4}$$

c

$$8 \div 3\frac{1}{2}$$

d

$$2\frac{1}{3} \div 5$$

2. $4\frac{1}{2} \div 1\frac{1}{6}$

$$4\frac{5}{6} \div 2\frac{2}{5}$$

$$4\frac{1}{3} \div 6$$

$$1\frac{1}{2} \div 3\frac{1}{8}$$

3. $6 \div 2\frac{1}{2}$

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

$$5 \div 3\frac{3}{4}$$

$$2\frac{1}{8} \div 3$$

4. $3\frac{3}{5} \div 4$

$$3\frac{1}{3} \div 2\frac{3}{8}$$

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

$$9 \div 1\frac{2}{3}$$