

Multiplication

$$\begin{aligned}
 6 \times 5\frac{3}{4} &= \frac{6}{1} \times \frac{23}{4} \\
 &= \frac{\cancel{6}^3 \times 23}{1 \times \cancel{4}_2} \\
 &= \frac{69}{2} \\
 &= 34\frac{1}{2}
 \end{aligned}$$

Rename the numbers as fractions.

Divide the numerator and the denominator by common factors.

Multiply.

Write the product as a mixed numeral in simplest form.

$$\begin{aligned}
 2\frac{2}{3} \times 1\frac{1}{2} \times \frac{4}{5} &= \frac{8}{3} \times \frac{3}{2} \times \frac{4}{5} \\
 &= \frac{\cancel{8}^4 \times \cancel{3}_1 \times 4}{\cancel{3}_1 \times \cancel{2}_1 \times 5} \\
 &= \frac{4 \times 1 \times 4}{1 \times 1 \times 5} \\
 &= \frac{16}{5} \text{ or } 3\frac{1}{5}
 \end{aligned}$$

Write each answer in simplest form.

a

1. $8 \times 2\frac{5}{6}$

b

$4\frac{2}{3} \times 9$

c

$3\frac{1}{6} \times 2 \times 9$

2. $1\frac{2}{3} \times 1\frac{1}{5}$

$1\frac{2}{7} \times 2\frac{1}{3}$

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

3. $1\frac{1}{9} \times \frac{3}{8}$

$\frac{5}{6} \times 1\frac{1}{8}$

$\frac{4}{5} \times 3\frac{1}{2} \times 2\frac{1}{2}$

4. $3\frac{1}{3} \times 1\frac{1}{5}$

$2\frac{2}{5} \times \frac{5}{8}$

$2\frac{1}{3} \times \frac{3}{7} \times \frac{1}{2}$

Perfect score: 12 My score: _____

Division

$$3\frac{3}{8} \div 1\frac{1}{2} = \frac{27}{8} \div \frac{3}{2}$$

Change $3\frac{3}{8}$ and $1\frac{1}{2}$ to fractions.

$$= \frac{\overset{9}{\cancel{27}}}{\underset{4}{8}} \times \frac{\overset{1}{\cancel{2}}}{\underset{1}{3}}$$

Multiply by the reciprocal of $\frac{3}{2}$.

$$= \frac{9}{4} \text{ or } 2\frac{1}{4}$$

Write $\frac{9}{4}$ as a mixed numeral in simplest form.

Write each answer in simplest form.

a

$$1. \quad \frac{7}{10} \div \frac{14}{15}$$

b

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

c

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

d

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

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

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

$$1\frac{2}{5} \div 1\frac{2}{7}$$

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

$$3. \quad \frac{3}{5} \div 1\frac{2}{7}$$

$$1\frac{1}{8} \div \frac{5}{6}$$

$$1\frac{3}{7} \div \frac{5}{7}$$

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

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

$$1\frac{7}{8} \div 1\frac{1}{4}$$

$$1\frac{5}{12} \div 2\frac{2}{3}$$

$$5\frac{3}{5} \div 2\frac{1}{10}$$

Perfect score: 16

My score: _____