

You must change mixed numbers to improper fractions before dividing

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

$8 \times 1 + 7 = 15$

$$\frac{15}{8} \div \frac{5}{4}$$

$4 \times 1 + 1 = 5$

$$\frac{15}{8} \times \frac{4}{5}$$

$$\frac{60}{40} \div 10$$

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

$$\frac{3}{2} = \left(\frac{1}{2}\right)$$

## Example 2

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Brittany has a summer job in a bakery.

One day, she used  $3\frac{3}{4}$  cups of chocolate chips to make chocolate-chip muffins.

A dozen muffins requires  $\frac{3}{4}$  cup chocolate chips.

How many dozen chocolate-chip muffins did Brittany make that day?

$$3\frac{3}{4} \div \frac{3}{4} = 3\frac{3}{4} \cdot \frac{4}{3}$$

$$\frac{15}{4} \cdot \frac{4}{3} = 5$$

$$\frac{15}{4} \times \frac{4}{3} = 5$$

$$1 \times \frac{15}{4} = 3\frac{3}{4}$$



$$3\frac{3}{4}$$

## Try these

7. Divide.

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

(b)  $3\frac{1}{4} \div 1\frac{1}{2}$

(c)  $6 \div 1\frac{2}{3}$

(d)  $1\frac{3}{4} \div 2$

(e)  $2\frac{3}{5} \div 4\frac{3}{4}$

(f)  $1\frac{1}{8} \div \frac{1}{2}$

(g)  $1\frac{1}{10} \div \frac{2}{5}$

(h)  $3\frac{1}{3} \div 5\frac{1}{3}$

# Answers

7. (a)  $2\frac{1}{4}$

(b)  $2\frac{1}{6}$

(c)  $3\frac{2}{5}$

(d)  $\frac{7}{8}$

(e)  $\frac{52}{95}$

(f)  $2\frac{1}{4}$

(g)  $2\frac{3}{4}$

(h)  $\frac{5}{8}$