

Multiplying Fractions by Whole Numbers

In Focus

Lulu bought eight $\frac{2}{3}$ l bottles of fruit punch.

How much fruit punch did she buy?

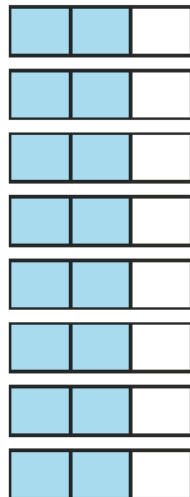
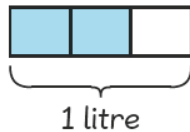
She also bought 8 pies for a party.

$\frac{2}{3}$ of them were eaten.

How many pies were eaten?

Let's Learn

1



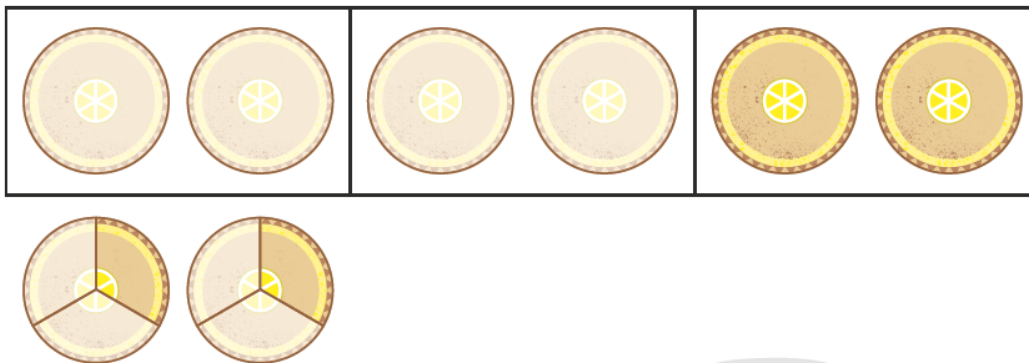
$$\begin{aligned} 8 \times \frac{2}{3} &= 8 \times 2 \text{ thirds} \\ &= 16 \text{ thirds} \\ &= \frac{16}{3} \end{aligned}$$

$$\frac{16}{3} = 5\frac{1}{3}$$



She bought $5\frac{1}{3}$ litres of fruit punch.

2



$$\frac{2}{3} \times 8 = 4 + \frac{2}{3} + \frac{2}{3} = 5\frac{1}{3}$$

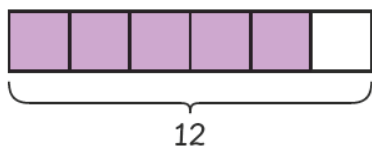
$$\frac{2}{3} \times 6 = 4$$



$5\frac{1}{3}$ pies were eaten.

3

Find the value of $\frac{5}{6} \times 12$ and $\frac{5}{6} \times 13$.



$$\frac{5}{6} \times 12 = 5 \times 2 = 10$$

$$\frac{5}{6} \times 13 = \frac{5}{6} \times 12 \text{ and } \frac{5}{6} \times 1$$



$$12 \div 6 = 2$$

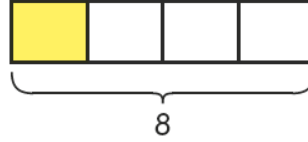
$$5 \times 2 = 10$$

$$\frac{5}{6} \times 13 = 10 + \frac{5}{6} = 10\frac{5}{6}$$

Guided Practice

1 Calculate.

(a) $\frac{1}{4} \times 8 =$

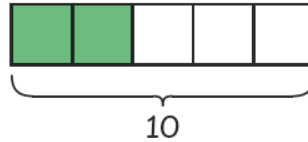


(b) $\frac{1}{4} \times 9 =$

(c) $\frac{1}{4} \times 11 =$

2 Calculate.

(a) $\frac{2}{5} \times 10 =$



(b) $\frac{2}{5} \times 11 =$

(c) $\frac{2}{5} \times 13 =$

Name: _____ Class: _____ Date: _____

Worksheet 16

Multiplying Fractions by Whole Numbers

1 Calculate.

$$\begin{aligned} \text{(a)} \quad 10 \times \frac{3}{5} \\ = 10 \times 3 \text{ fifths} \\ = 30 \text{ fifths} \\ = \frac{30}{5} \\ = \square \end{aligned}$$

$$\begin{aligned} \text{(b)} \quad 10 \times \frac{2}{3} &= \square \times \square \text{ thirds} \\ &= \square \text{ thirds} \\ &= \square \\ &= \square \end{aligned}$$

$$\begin{aligned} \text{(c)} \quad 9 \times \frac{2}{7} &= \square \times \square \text{ sevenths} \\ &= \square \text{ sevenths} \\ &= \square \\ &= \square \end{aligned}$$

2 Calculate.

(a) $\frac{1}{6} \times 7 =$

(b) $\frac{1}{6} \times 8 =$

(c) $\frac{1}{6} \times 9 =$

3 Holly used $\frac{2}{3}$ m of ribbon to tie one parcel. How many metres of ribbon will she need for 5 similar parcels?