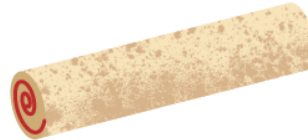


Multiplying Mixed Numbers

Lesson 17

In Focus

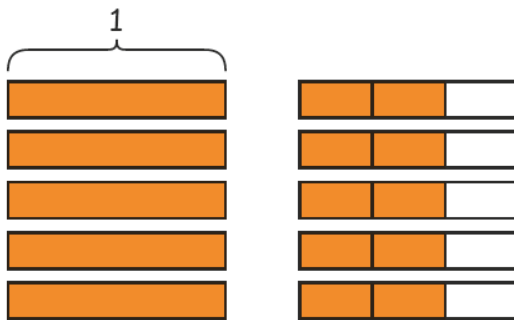
Each child had $1\frac{2}{3}$ mini cake rolls.



Did they have more than 8 mini cake rolls altogether?

Let's Learn

1



$$\begin{aligned} 5 \times 1\frac{2}{3} &= 5 + \frac{10}{3} \\ &= 5 + 3\frac{1}{3} \\ &= 8\frac{1}{3} \end{aligned}$$



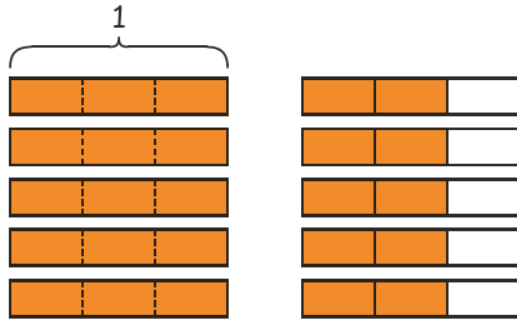
$$5 \times 1 = 5$$



$$\begin{aligned} 5 \times 2 \text{ thirds} \\ &= 10 \text{ thirds} \end{aligned}$$

They had $8\frac{1}{3}$ mini cake rolls.

2



They had $8\frac{1}{3}$ mini cake rolls.

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

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

$$= \frac{25}{3}$$

$$= 8\frac{1}{3}$$

Guided Practice

1

Find the value of the following.

(a) $1\frac{1}{3} \times 4 =$

(b) $2\frac{5}{6} \times 3 =$

2

Calculate $1\frac{3}{4} \times 2$.



Method 1

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

Method 2

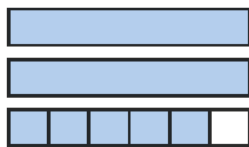
$1\frac{3}{4} \times 2 =$ $\times 2$



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

3

Calculate $4 \times 2\frac{5}{6}$.



Name: _____ Class: _____ Date: _____

Worksheet 17

Multiplying Mixed Numbers

- 1 Use Ravi's and Ruby's methods to multiply mixed numbers.



's method

$$\begin{aligned} & 1\frac{1}{4} \times 2 \\ &= 2 + \frac{2}{4} \\ &= 2\frac{1}{2} \end{aligned}$$



's method

$$\begin{aligned} & 1\frac{1}{4} \times 2 \\ &= \frac{5}{4} \times 2 \\ &= \frac{10}{4} \\ &= 2\frac{1}{2} \end{aligned}$$

(a)



's method

$$\begin{aligned} & 1\frac{2}{3} \times 3 \\ &= \end{aligned}$$




's method

$$\begin{aligned} & 1\frac{2}{3} \times 3 \\ &= \end{aligned}$$

(b)  's method

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

 's method

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

- 2 12 traffic cones are placed along a street. Each cone is $3\frac{1}{2}$ m from the next. What is the distance between the first cone and the last?