Name _____

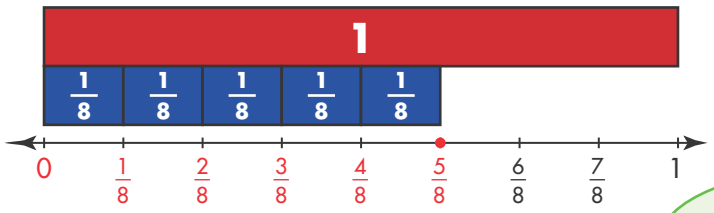
Video Practice Tools Games

# Additional Practice 10-1

## Fractions as Multiples of Unit Fractions

### Another Look!

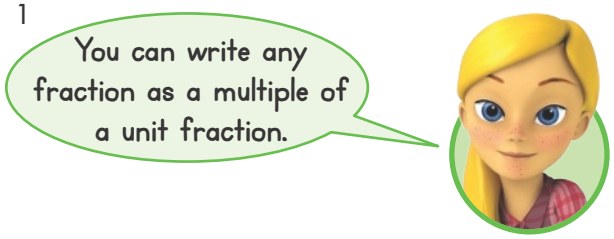
Use fraction strips to show $\frac{5}{8}$ as a multiple of a unit fraction.




Write an equation.

$\frac{5}{8} = \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

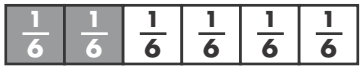
$\frac{5}{8} = 5 \times \frac{1}{8}$



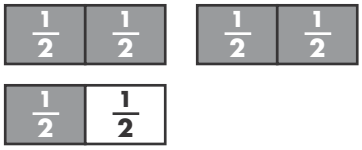

For **1–15**, write each fraction as a multiple of a unit fraction. Use a tool as needed.

**1.** $\frac{2}{4} = 2 \times \frac{\square}{4}$


**2.** $\frac{2}{6} = \square \times \frac{1}{6}$




**3.** $\frac{5}{2} = \square \times \frac{1}{2}$




**4.** $\frac{3}{3} = 3 \times \frac{1}{\square}$

**5.** $\frac{10}{8} = 10 \times \frac{\square}{8}$

**6.** $\frac{2}{5} = 2 \times \frac{1}{\square}$

**7.** $\frac{1}{6}$

**8.** $\frac{9}{5}$

**9.** $\frac{8}{3}$

**10.** $\frac{9}{10}$

**11.** $\frac{9}{12}$

**12.** $\frac{8}{10}$

**13.** $\frac{6}{3}$

**14.** $\frac{6}{8}$

**15.** $\frac{4}{12}$

**16.** Kevin is baking cookies. Each batch of cookies uses $\frac{1}{8}$ pound of butter. Kevin has $\frac{11}{8}$ pounds of butter. How many batches of cookies can Kevin make? Explain by writing $\frac{11}{8}$ as a multiple of $\frac{1}{8}$.

**17.** Students are painting a mural. So far, the mural is painted $\frac{4}{12}$ blue, $\frac{2}{12}$ red, and $\frac{3}{12}$ green. Write and solve an equation to find $m$, how much of the mural has been painted.

**18.** **Vocabulary** How can you tell if a fraction is a *unit fraction*?

**19.** **Algebra** What is the value of $p$ in the equation $\frac{10}{6} = p \times \frac{1}{6}$?

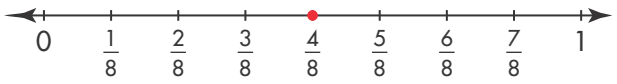
**20.** **Look for Relationships** Mari packs the same number of oranges in each bag. How many oranges does Mari need to pack 9 bags? How can you determine the number of oranges Mari needs for 13 bags?

| Number of Bags | 3 | 5 | 7 | 9 | 11 |
|---|---|---|---|---|---|
| Number of Oranges | 9 | 15 | 21 | | 33 |

**21.** **Higher Order Thinking** Katrina has $\frac{2}{3}$ of a gallon of ice cream. She uses $\frac{1}{6}$ gallon as a serving. How many servings does she have? Explain by writing $\frac{2}{3}$ as an equivalent fraction with a denominator of 6 and then writing the fraction as a multiple of $\frac{1}{6}$.


## Assessment Practice

**22.** Which multiplication equation describes the fraction plotted on the number line? 4.NF.2.4.a



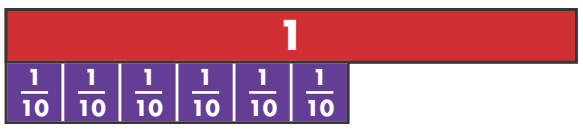

Ⓐ $\frac{4}{8} = 4 + \frac{1}{8}$

Ⓑ $\frac{4}{8} = 4 \times \frac{1}{8}$

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

Ⓓ $\frac{4}{8} = 8 \times \frac{1}{4}$

**23.** Which multiplication equation describes the fraction strips below? 4.NF.2.4.a




Ⓐ $\frac{7}{10} = \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10}$

Ⓑ $\frac{7}{10} = 7 \times \frac{1}{10}$

Ⓒ $\frac{6}{10} = 6 + \frac{1}{10}$

Ⓓ $\frac{6}{10} = 6 \times \frac{1}{10}$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