

**Learning Target:** Represent mixed numbers on a number line.

**Success Criteria:**

- I can use unit fractions to model mixed numbers on a number line.
- I can plot mixed numbers on a number line.

## Explore and Grow

A **mixed number** represents the sum of a whole number and a fraction less than 1.

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

Use Fraction Strips to model  $1\frac{2}{3}$  on the number line.



Think: How many thirds are in  $1\frac{2}{3}$ ?

$$1\frac{2}{3} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

Use Fraction Strips to model  $1\frac{3}{4}$  on the number line.



Think: How many fourths are in  $1\frac{3}{4}$ ?

$$1\frac{3}{4} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

A mixed number represents a sum, but it is written without the + sign.

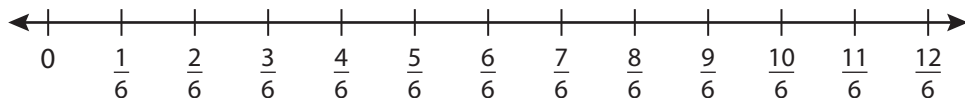


**Number Sense** Explain the relationship between unit fractions, whole numbers, and mixed numbers.

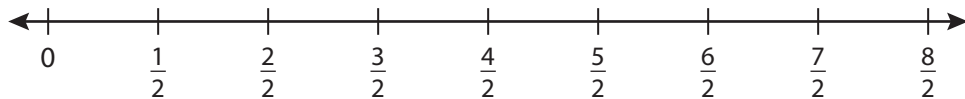
# Practice

Name \_\_\_\_\_

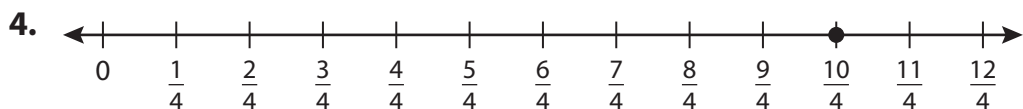
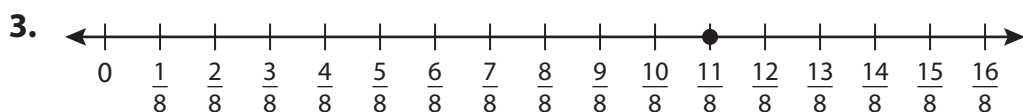
1. Plot  $1\frac{2}{6}$  on the number line.



2. Plot  $3\frac{1}{2}$  on the number line.



Write the mixed number represented on the number line.



5. **Which One Doesn't Belong?** Which expression does *not* belong with the other three?

$$\frac{51}{10}$$

$$\frac{10}{10} + \frac{5}{10}$$

$$5\frac{1}{10}$$

$$\frac{50}{10} + \frac{1}{10}$$

## DIG DEEPER!

Find the unknown number.

6.  $\square \frac{1}{3} = \frac{16}{3}$

7.  $\frac{\square}{6} = 2\frac{4}{6}$

8.  $\square \frac{3}{4} = \frac{15}{4}$

9. **Modeling Real Life** You invite 18 friends over for a party. You think each friend will eat  $\frac{1}{8}$  of a loaf of bread. How many loaves should you buy? What fraction of a loaf will be left over?

