

Name \_\_\_\_\_

**Interpret Division with Fractions****COMMON CORE STANDARD** CC.5.NF.7c

Apply and extend previous understandings of multiplication and division to multiply and divide fractions.

Write an equation to represent the problem. Then solve.

1. Daniel has a piece of wire that is  $\frac{1}{2}$  yard long. He cuts the wire into 3 equal pieces. What fraction of a yard is each piece?

$$\frac{1}{2} \div 3 = n; \frac{1}{2} \times \frac{1}{3} = n;$$

$$n = \frac{1}{6}; \frac{1}{6} \text{ yard}$$

2. Vita has a piece of ribbon that is 5 meters long. She cuts the ribbon into pieces that are each  $\frac{1}{3}$  meter long. How many pieces does she cut?

Draw a diagram to represent the problem. Then solve.

3. Leah has 3 muffins. She cuts each muffin into fourths. How many  $\frac{1}{4}$ -muffin pieces does she have?

4. Two friends share  $\frac{1}{4}$  gallon of lemonade equally. What fraction of the gallon of lemonade does each friend get?

5. Write a story problem to represent  $3 \div \frac{1}{2}$ .

6. Write a story problem to represent  $\frac{1}{4} \div 2$ .

**Problem Solving** 

7. Spencer has  $\frac{1}{3}$  pound of nuts. He divides the nuts equally into 4 bags. What fraction of a pound of nuts is in each bag?

8. Humma has 3 apples. She slices each apple into eighths. How many  $\frac{1}{8}$ -apple slices does she have?

### Lesson Check (CC.5.NF.7c)

- Abigail has  $\frac{1}{2}$  gallon of orange juice. She pours the same amount of the juice into each of 6 glasses. Which equation represents the fraction of a gallon of orange juice in each glass?
  - $6 \div \frac{1}{2} = n$
  - $6 \div 2 = n$
  - $\frac{1}{2} \div \frac{1}{6} = n$
  - $\frac{1}{2} \div 6 = n$
- Which situation can be represented by  $4 \div \frac{1}{2}$ ?
  - Riley has a piece of wire that is  $\frac{1}{2}$  yard long. He cuts it into fourths. How long is each piece of wire?
  - Riley has a piece of wire that is 4 yards long. He cuts it into pieces that are  $\frac{1}{2}$  yard long. How many pieces of wire does Riley have?
  - Riley has 4 pieces of wire. Each piece is  $\frac{1}{2}$  yard long. How much wire does Riley have in all?
  - Riley has a piece of wire that is 4 yards long. He cuts it in half. How long is each piece of wire?

### Spiral Review (CC.5.NF.1, CC.5.NF.3, CC.5.NF.4a, CC.5.NF.6)

- Hannah buys  $2\frac{2}{3}$  pound of roast beef. She uses  $\frac{1}{4}$  pound to make a sandwich for lunch. How much roast beef does she have left? (Lesson 6.5)
  - $\frac{5}{12}$  pound
  - $\frac{1}{2}$  pound
  - $\frac{11}{12}$  pound
  - 2 pounds
- Maritza's car has 16 gallons of gas in the tank. She uses  $\frac{3}{4}$  of the gas. How many gallons of gas does Maritza use? (Lesson 7.3)
  - 4 gallons
  - $5\frac{1}{4}$  gallons
  - 12 gallons
  - $21\frac{1}{3}$  gallons
- Alex buys  $2\frac{1}{2}$  pounds of grapes. He buys  $1\frac{1}{4}$  times as many pounds of apples as grapes. How many pounds of apples does Alex buy? (Lesson 7.9)
  - $1\frac{1}{4}$  pounds
  - $3\frac{1}{8}$  pounds
  - $3\frac{1}{3}$  pounds
  - $3\frac{3}{4}$  pounds
- Jaime has a board that is 8 feet long. He cuts the board into three equal pieces. How long is each piece? (Lesson 8.3)
  - $\frac{3}{8}$  foot
  - $1\frac{2}{3}$  feet
  - $2\frac{2}{3}$  feet
  - 24 feet