

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Solve. Draw a rectangular fraction model to show your thinking.

a. Half of  $\frac{1}{2}$  cake = \_\_\_\_\_ cake

b. One-third of  $\frac{1}{2}$  cake = \_\_\_\_\_ cake

c.  $\frac{1}{4}$  of  $\frac{1}{2}$

d.  $\frac{1}{2} \times \frac{1}{5}$

e.  $\frac{1}{3} \times \frac{1}{3}$

f.  $\frac{1}{4} \times \frac{1}{3}$

2. Noah mows  $\frac{1}{2}$  of his property and leaves the rest wild. He decides to use  $\frac{1}{5}$  of the wild area for a vegetable garden. What fraction of the property is used for the garden? Draw a picture to support your answer.

3. Fawn plants  $\frac{2}{3}$  of the garden with vegetables. Her son plants the remainder of the garden. He decides to use  $\frac{1}{2}$  of his space to plant flowers, and in the rest, he plants herbs. What fraction of the entire garden is planted in flowers? Draw a picture to support your answer.

4. Diego eats  $\frac{1}{5}$  of a loaf of bread each day. On Tuesday, Diego eats  $\frac{1}{4}$  of the day's portion before lunch. What fraction of the whole loaf does Diego eat before lunch on Tuesday? Draw a rectangular fraction model to support your thinking.

## Answer Key

1. Accurate area model drawn

a.  $\frac{1}{4}$

b.  $\frac{1}{6}$

c.  $\frac{1}{8}$

d.  $\frac{1}{10}$

e.  $\frac{1}{9}$

f.  $\frac{1}{12}$

2.  $\frac{1}{10}$ ; accurate area model drawn

3.  $\frac{1}{6}$ ; accurate area model drawn

4.  $\frac{1}{20}$ ; accurate model drawn