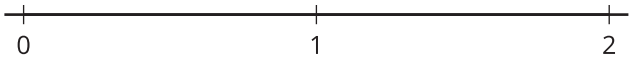
Section A: Practice Problems

1. **Pre-unit**

What fraction of the rectangle is shaded? Explain how you know.

2. **Pre-unit**

a. Locate and label $\frac{3}{4}$ and $\frac{6}{4}$ on the number line.

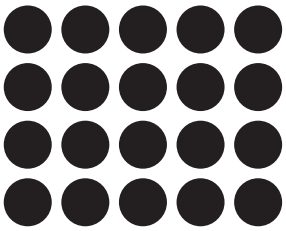


b. Explain why your points represent $\frac{3}{4}$ and $\frac{6}{4}$.

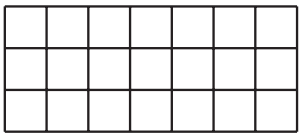
3. **Pre-unit**

Write a multiplication expression for each image. Explain your reasoning.

a.



b.



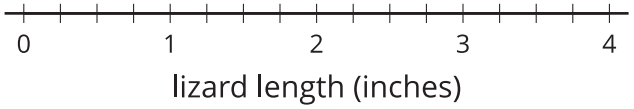
4. **Pre-unit**

Here are the lengths of some lizards in inches. Use the lengths to complete the line plot.

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

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

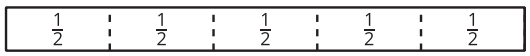
Length of Lizards



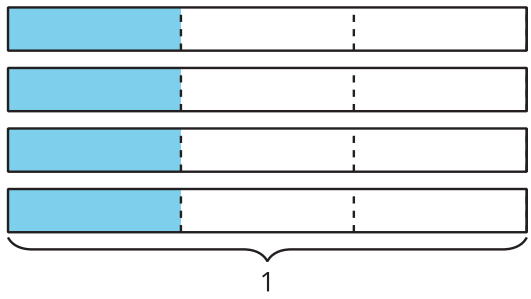
lizard length (inches)

5. Write an expression that matches each diagram. Then, find the value of each expression.

a.



b.

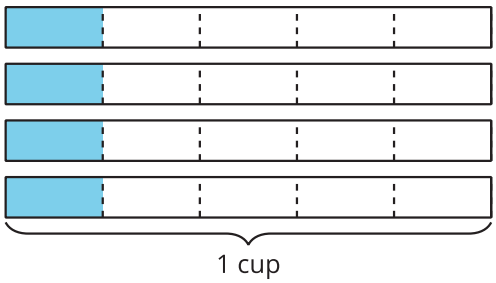


(From Unit 3, Lesson 1.)

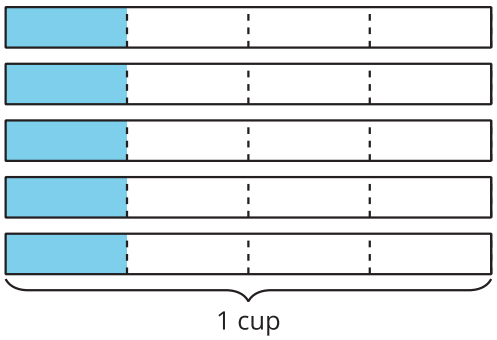
6. Five friends go on a hike. They each bring $\frac{1}{4}$ cup of nuts.

   a. If the shaded parts represent the amount of nuts the friends bring on their hike, which diagram matches the story? Explain your reasoning.

A



B



   b. How many cups of nuts do the friends bring on the hike?

(From Unit 3, Lesson 2.)

7. Kiran's cat eats $\frac{1}{2}$ cup of food each day.

   a. How much food does Kiran's cat eat in a week?

   b. Draw a diagram to represent the situation.

(From Unit 3, Lesson 3.)

8. a. Draw a diagram to show $3 \times \frac{7}{8}$.

   b. How does the diagram help you find the value of the expression $3 \times \frac{7}{8}$?

(From Unit 3, Lesson 4.)

9. Find the number that makes each equation true. Draw a diagram if it is helpful.

   a. $\frac{10}{3} = \_\_\_\_ \times \frac{1}{3}$

   b. $\frac{10}{3} = \_\_\_\_ \times \frac{2}{3}$

   c. $\frac{10}{3} = \_\_\_\_ \times \frac{5}{3}$

(From Unit 3, Lesson 5.)

10. Each bead weighs $\frac{5}{8}$ gram. How much do 7 beads weigh? Explain or show your reasoning.

(From Unit 3, Lesson 6.)

11. **Exploration**

    a. Measure how thick your workbook is to the nearest $\frac{1}{8}$ inch.

    b. If all of your classmates stacked their workbooks together, how tall would the stack be? Explain or show your reasoning.

    c. Check your answer by measuring, if possible.

12. **Exploration**

    Diego walked the same number of miles to school each day. He says that he walked $\frac{48}{5}$ miles in total, but does not say how many days that distance includes.

    What are some possible number of days Diego counted and the distance he walked each of those days?