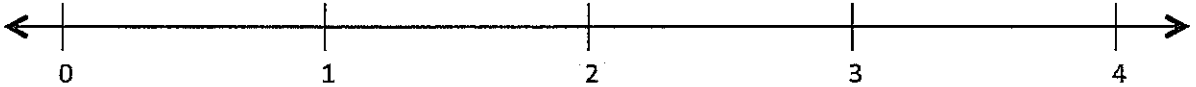


Name \_\_\_\_\_

1. a. Partition the tape diagram to show  $3 \times \frac{2}{3}$ . Partition the number line to show  $6 \times \frac{1}{3}$ .



- b. Use the models above to explain why  $3 \times \frac{2}{3} = 6 \times \frac{1}{3}$ .

2. Fill in the circles below with  $<$ ,  $=$ , or  $>$  to make true number sentences. Use decomposition or multiplication to justify your answer.

a.  $5 \bigcirc \frac{30}{6}$

b.  $8\frac{1}{3} \bigcirc \frac{30}{3}$

c.  $\frac{10}{5} \bigcirc \frac{27}{9}$

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3. Generate a pattern of at least 8 fractions by adding  $\frac{1}{2}$  to  $\frac{1}{2}$  and then continuing to add  $\frac{1}{2}$  to each fraction. Circle each fraction equal to a whole number. Write what you notice about the pattern of whole numbers. The first two fractions are written for you.

$$\frac{1}{2}, \frac{2}{2},$$

4. Find each sum or difference.

a.  $3\frac{2}{10} + 4\frac{4}{10} =$

b.  $2\frac{1}{8} + 1\frac{2}{8} + 2\frac{7}{8} =$

c.  $3\frac{7}{11} - 1\frac{5}{11}$

d.  $3\frac{1}{5} - 2\frac{3}{5}$

Hint! A unit fraction has a one as the numerator.

5. a. Rewrite  $2 \times \frac{4}{6}$  as the product of a unit fraction and a whole number. Solve.

b. Rewrite  $2 \times 2\frac{2}{4}$  as the product of a unit fraction and a whole number. Solve.

6. Determine if the following are true or false. Explain how you know using models or words.

a.  $3\frac{1}{3} = 3 + \frac{1}{3}$

b.  $\frac{4}{3} = \frac{1}{3} + \frac{3}{3}$

c.  $\frac{8}{6} - \frac{5}{6} = \frac{8-5}{6}$

d.  $\frac{8}{3} = 8 + \frac{1}{3}$

e.  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} = 4 + \frac{1}{8}$

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

7. The chart to the right shows data Sammy collected about insect lengths.

a. At the bottom of this page, create a line plot to display the data in the table.

| Insect    | Length (inches) |
|-----------|-----------------|
| Beetle    | $2\frac{7}{8}$  |
| Earwig    | $2\frac{4}{8}$  |
| Moth      | $2\frac{2}{8}$  |
| Termite   | $2\frac{1}{8}$  |
| Water Bug | $2\frac{5}{8}$  |
| Wasp      | $2\frac{1}{4}$  |

b. What is the difference in length between the widest and narrowest insect on the chart?

c. Two insects have the same length. Explain how you know the measurements are equal.

