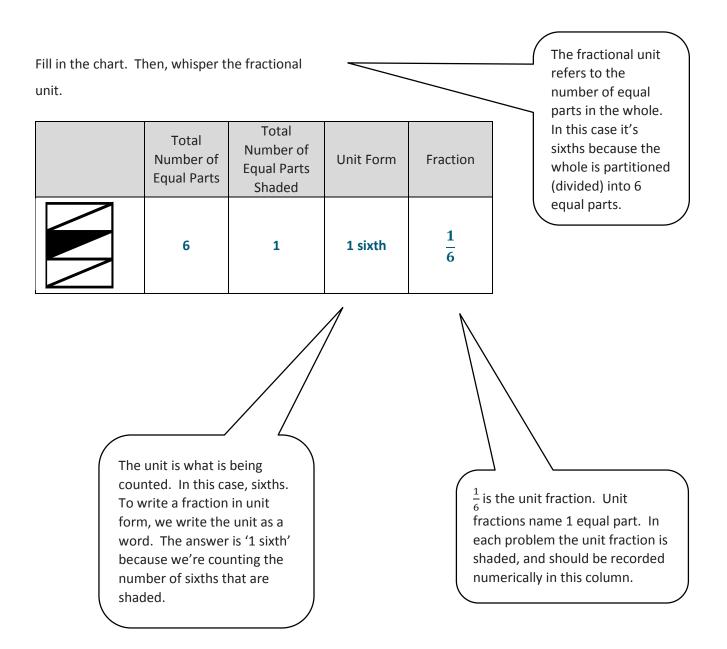
### G3-M5-Lesson 5: Partition a whole into equal parts and define the equal parts to identify the unit fraction numerically.



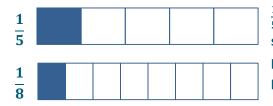
Lesson 5:

Partition a whole into equal parts and define the equal parts to identify the unit fraction numerically.

If 1 fifth is shaded, then that rectangle must be partitioned into 5 equal parts (fifths). The other rectangle must be partitioned into 8 equal parts (eighths).

Draw two identical rectangles. Shade 1 fifth of one rectangle and 1 eighth of the other. Label the unit fractions. Use your rectangles to explain why  $\frac{1}{5}$  is greater than  $\frac{1}{8}$ .

#### Sample student response:



 $\frac{1}{5}$  is greater than  $\frac{1}{8}$  because both rectangles have 1 equal part shaded, but when the rectangle is cut into 5 equal parts, the parts are bigger than when the rectangle is cut into 8 equal parts.

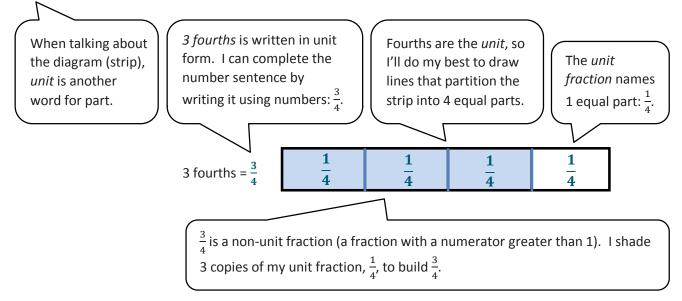
The explanation should include the idea that when the same rectangle (whole) is partitioned into more equal parts, the parts get smaller.



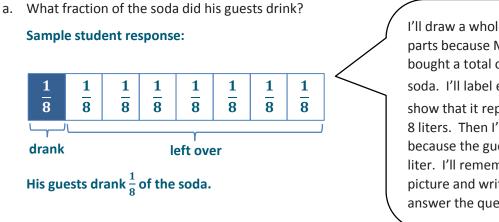
Partition a whole into equal parts and define the equal parts to identify the unit fraction numerically.

# G3-M5-Lesson 6: Build non-unit fractions less than one whole from unit fractions.

Complete the number sentence. Estimate to partition each strip equally, write the unit fraction inside each unit, and shade the answer.



Mr. Stevens bought 8 liters of soda for a party. His guests drank 1 liter.



Build non-unit fractions less than one whole from unit fractions.

I'll draw a whole with 8 equal parts because Mr. Stephens bought a total of 8 liters of soda. I'll label each part  $\frac{1}{8}$  to show that it represents 1 of the 8 liters. Then I'll shade 1 part because the guests drank 1 liter. I'll remember to label my picture and write a sentence to answer the question.

Lesson 6:

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b. What fraction of the soda was left?

Sample student response:

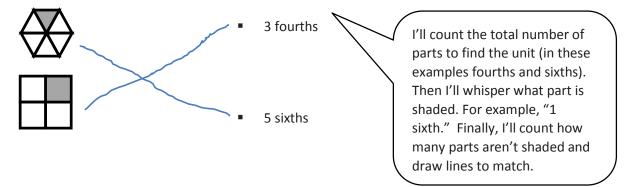
 $\frac{7}{8}$  of the soda was left.

I just need to count the units on my diagram that were left over and write a sentence to answer the question.



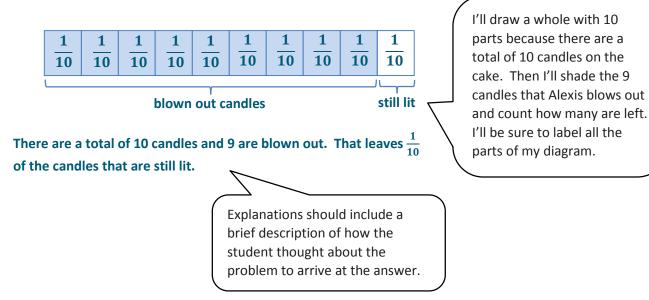
# G3-M5-Lesson 7: Identify and represent shaded and non-shaded parts of one whole as fractions.

Whisper the fraction of the shape that is shaded. Then, match the shape to the amount that is not shaded.



Mom lights 10 birthday candles on the cake. Alexis blows out 9 candles. What fraction of the birthday candles are still lit? Draw and explain.

#### Sample student response:



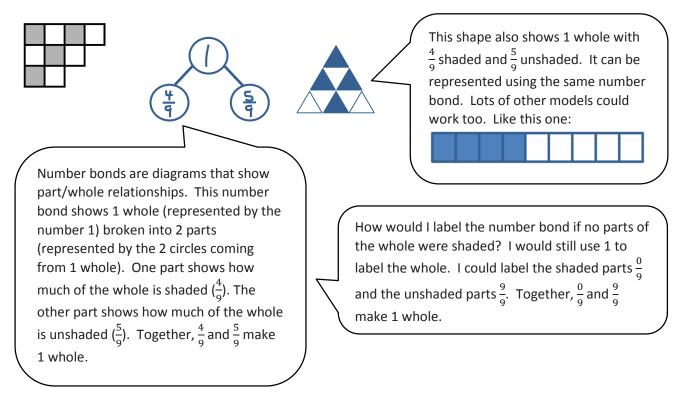


Identify and represent shaded and non-shaded parts of one whole as fractions.

## G3-M5-Lesson 8: Represent parts of one whole as fractions with number bonds.

Show a number bond representing what is shaded and unshaded in each of the figures. Draw a different visual model that would be represented by the same number bond.

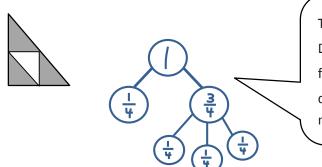
#### Sample student response:



This first part is just like the example above.

Draw a number bond with 2 parts showing the shaded and unshaded fractions of each figure. Decompose both parts of the number bond into unit fractions.

#### Sample student response:



The 2 parts of my number bond are  $\frac{1}{4}$  and  $\frac{3}{4}$ . Decomposing is taking apart.  $\frac{1}{4}$  is already a unit fraction, but  $\frac{3}{4}$  is a non-unit fraction. I can decompose  $\frac{3}{4}$  into 3 copies of  $\frac{1}{4}$ . Now both parts of my number bond are written as unit fractions.

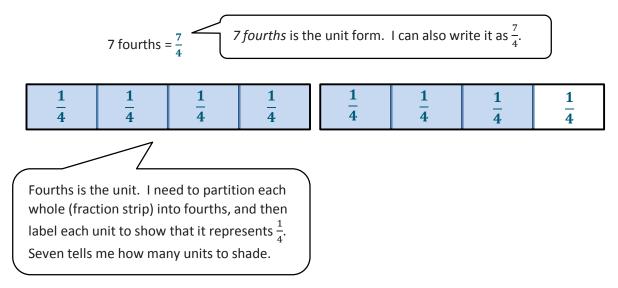


## G3-M5-Lesson 9: Build and write fractions greater than one whole using unit fractions.

Each shape represents 1 whole. Fill in the chart.

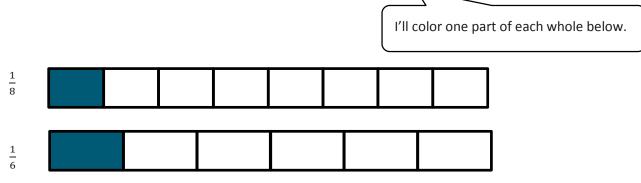
Each of these wholes is partitioned into halves. So,		Unit Fraction	Total Number of Units Shaded	Fraction Shaded
the unit fraction must be $\frac{1}{2}$ . Three halves are shaded. I can show that by writing $\frac{3}{2}$ .	$\diamondsuit \diamondsuit$	$\frac{1}{2}$	3	$\frac{3}{2}$

Estimate to draw and shade units on the fraction strips. Solve.

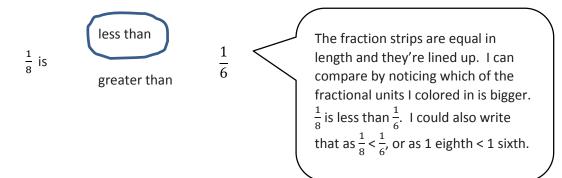


## G3-M5-Lesson 10: Compare unit fractions by reasoning about their size using fraction strips.

Each fraction strip is 1 whole. All the fraction strips are equal in length. Color 1 fractional unit in each strip. Then, answer the questions below.



Circle *less than* or *greater than*. Whisper the complete sentence.

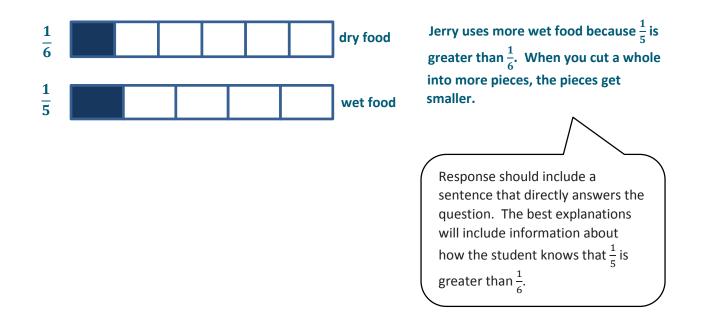




I can draw fraction strips like the ones in the problem before to check which fraction is bigger.

Jerry feeds his dog  $\frac{1}{5}$  cup of wet food and  $\frac{1}{6}$  cup of dry food for dinner. Does he use more wet food or dry food? Explain your answer using pictures, numbers, and words.

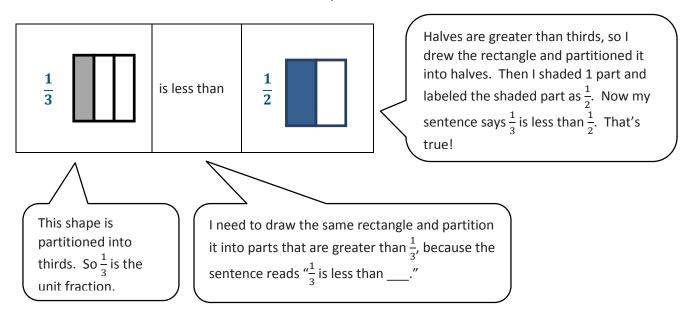
#### Sample student response:





## G3-M5-Lesson 11: Compare unit fractions with different-sized models representing the whole.

Label the unit fraction. In each blank, draw and label the same whole with a shaded unit fraction that makes the sentence true. There is more than 1 correct way to make the sentence true.



Luna drinks  $\frac{1}{5}$  of a large water bottle. Gabriel drinks  $\frac{1}{3}$  of a small water bottle. Gabriel says, "I drank more than you because  $\frac{1}{3} > \frac{1}{5}$ ."

a. Use pictures and words to explain Gabriel's mistake.

#### Sample student response:



Gabriel can't compare how much water he and Luna drank. If the wholes are different then 1/5 might be bigger than 1/3 like in the picture I drew. The important thing to notice is that the water bottles are different sizes. That means the wholes are different, so you can't compare the fractions!



b. How could you change the problem so that Gabriel is correct? Use pictures and words to explain.

#### Sample student response:

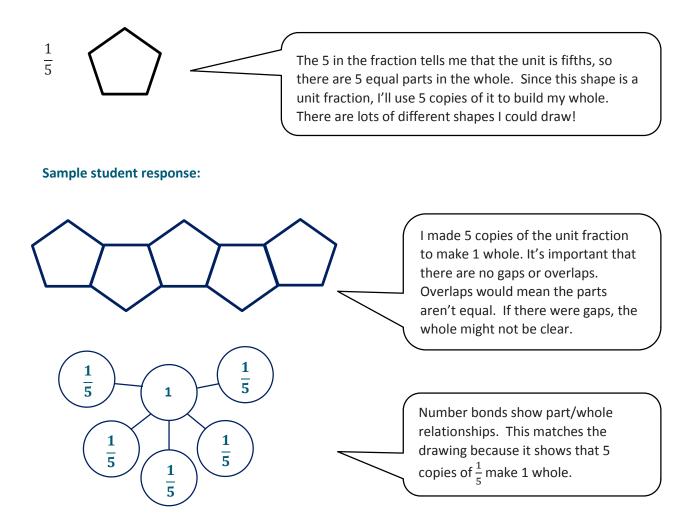
I could change the problem to make the wholes the same size. Then 1/3 would be greater than 1/5. When the whole is the same the parts have to be smaller to make fifths than do to make thirds.



## G3-M5-Lesson 12: Specify the corresponding whole when

### presented with one equal part.

Each shape represents the given unit fraction. Estimate to draw a possible whole. Draw a number bond that matches.

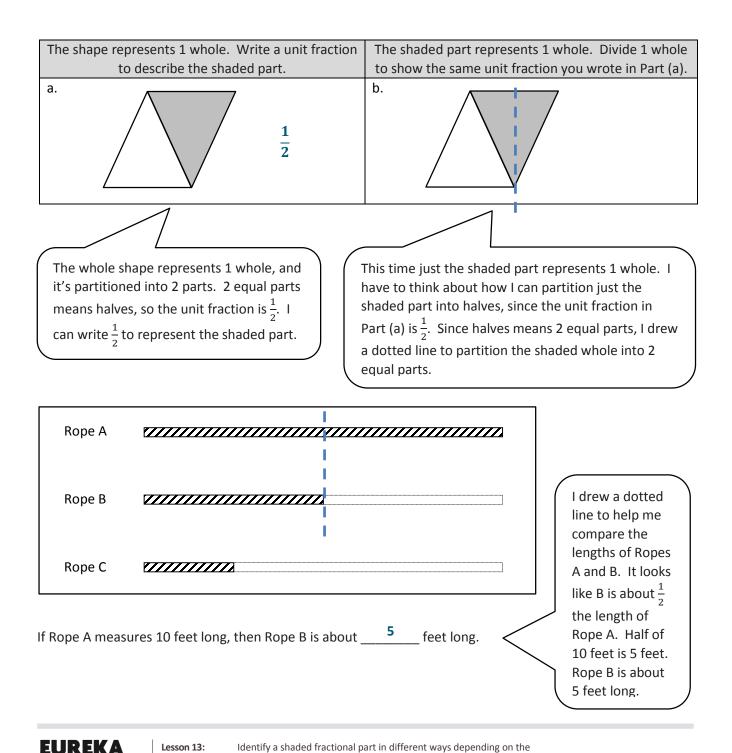




Lesson 12:

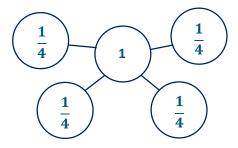
### G3-M5-Lesson 13: Identify a shaded fractional part in different

ways depending on the designation of the whole.



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About how many copies of Rope C equal the length of Rope A? Draw number bonds to help you.



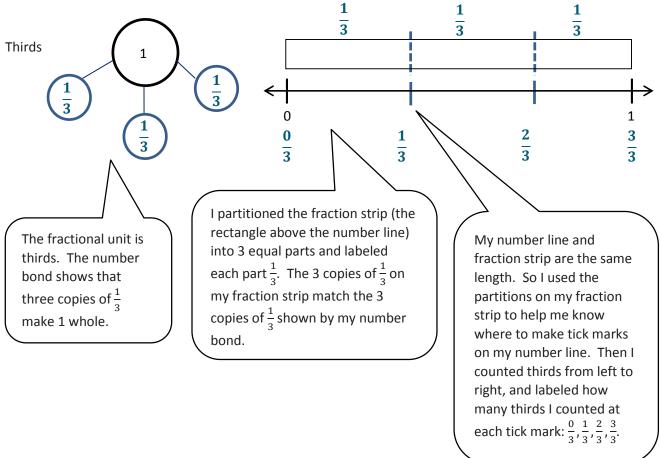
About 4 copies of Rope C equal the length of Rope A. I can draw another dotted line to help me compare the lengths of Ropes C and A. That will show me that Rope C is about  $\frac{1}{4}$ the length of Rope A.



Identify a shaded fractional part in different ways depending on the designation of the whole.

# G3-M5-Lesson 14: Place fractions on a number line with endpoints 0 and 1.

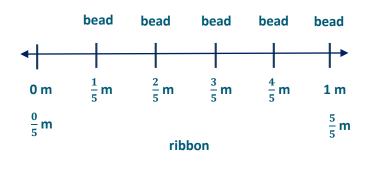
Draw a number bond for each fractional unit. Partition the fraction strip to show the unit fractions of the number bond. Use the fraction strip to help you label the fractions on the number line. Be sure to label the fractions at 0 and 1.





A ribbon is 1 meter long. Mrs. Lee sews a bead every  $\frac{1}{5}$  meter. The first bead is at  $\frac{1}{5}$  meter. The last bead is at 1 meter. Draw and label a number line from 0 meters to 1 meter to show where Mrs. Lee sews beads. Label all the fractions, including 0 fifths and 5 fifths. Label 0 meters and 1 meter, too.

#### Sample student response:



Mrs. Lee sews beads every  $\frac{1}{5}$  meter, so her ribbon must be partitioned into 5 parts. I drew a number line to represent her ribbon, and then partitioned it into 5 parts. I made labels showing where she sews beads. Then I counted the fifths from left to right starting at 0, and labeled them at each tick mark. Mrs. Lee sewed 5 beads on the ribbon.

