## Eureka Math<sup>™</sup> Grade 3, Module 5

## Student File\_A

Contains copy-ready classwork and homework as well as templates (including cut outs)

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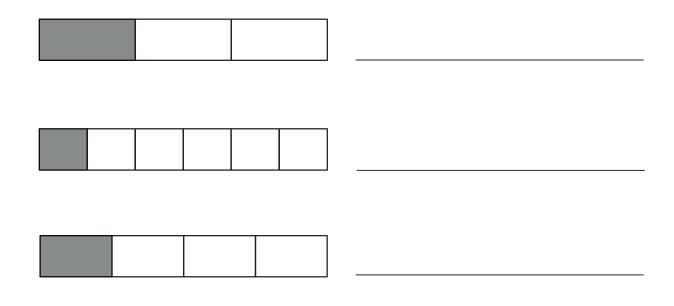
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	A STORY OF UNITS	Lessor	1 Problem Set	3•5
Na	ame	Date		
1.		e liquid reaches the fill line shown near th ne drawing as indicated. The first one is d	•	mount
				7
	1 half	1 fourth	1 third	

2. Juanita cut her string cheese into equal pieces as shown in the rectangles below. In the blanks below, name the fraction of the string cheese represented by the shaded part.

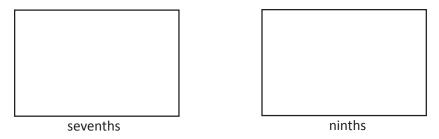




Lesson 1:

Specify and partition a whole into equal parts, identifying and counting unit fractions using concrete models.

- 3. a. In the space below, draw a small rectangle. Estimate to split it into 2 equal parts. How many lines did you draw to make 2 equal parts? What is the name of each fractional unit?
  - b. Draw another small rectangle. Estimate to split it into 3 equal parts. How many lines did you draw to make 3 equal parts? What is the name of each fractional unit?
  - c. Draw another small rectangle. Estimate to split it into 4 equal parts. How many lines did you draw to make 4 equal parts? What is the name of each fractional unit?
- 4. Each rectangle represents 1 sheet of paper.
  - a. Estimate to show how you would cut the paper into fractional units as indicated below.



- b. What do you notice? How many lines do you think you would draw to make a rectangle with 20 equal parts?
- 5. Rochelle has a strip of wood 12 inches long. She cuts it into pieces that are each 6 inches in length. What fraction of the wood is one piece? Use your strip from the lesson to help you. Draw a picture to show the piece of wood and how Rochelle cut it.



A STORY OF UNITS

Name\_\_\_\_\_

Date\_\_\_\_\_

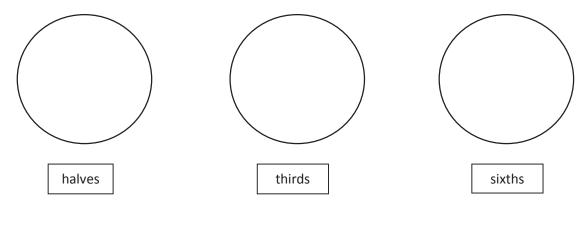
1. A beaker is considered full when the liquid reaches the fill line shown near the top. Estimate the amount of water in the beaker by shading the drawing as indicated. The first one is done for you.



2. Danielle cut her candy bar into equal pieces as shown in the rectangles below. In the blanks below, name the fraction of candy bar represented by the shaded part.



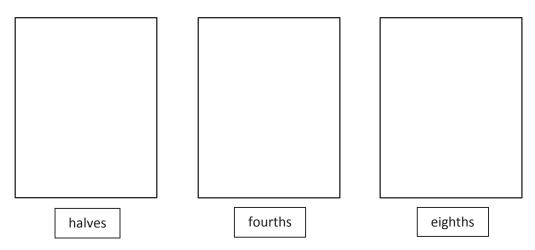
3. Each circle represents 1 whole pie. Estimate to show how you would cut the pie into fractional units as indicated below.



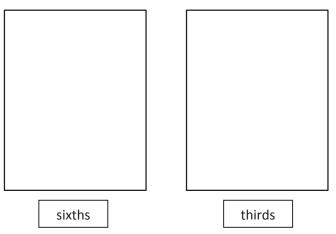


Lesson 1: Specify and partition a whole into equal parts, identifying and counting unit fractions using concrete models.

4. Each rectangle represents 1 sheet of paper. Estimate to draw lines to show how you would cut the paper into fractional units as indicated below.



5. Each rectangle represents 1 sheet of paper. Estimate to draw lines to show how you would cut the paper into fractional units as indicated below.



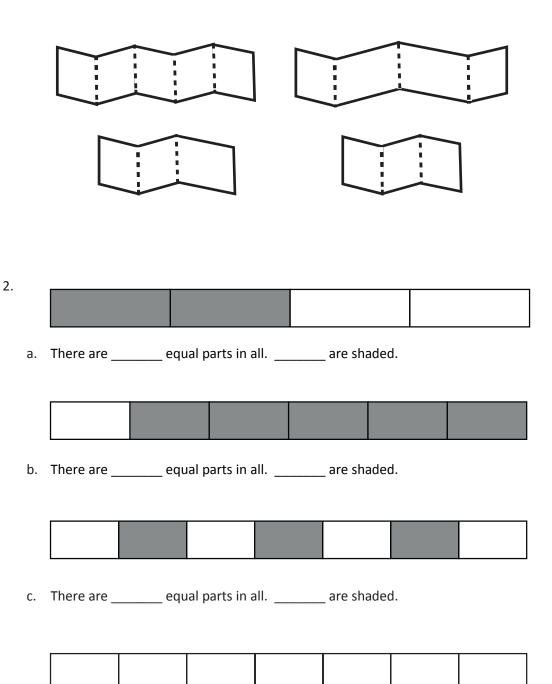
- 6. Yuri has a rope 12 meters long. He cuts it into pieces that are each 2 meters long. What fraction of the rope is one piece? Draw a picture. (You might fold a strip of paper to help you model the problem.)
- 7. Dawn bought 12 grams of chocolate. She ate half of the chocolate. How many grams of chocolate did she eat?



Name\_\_\_\_\_

Date \_\_\_\_\_

1. Circle the strips that are folded to make equal parts.



d. There are \_\_\_\_\_\_ equal parts in all. \_\_\_\_\_ are shaded.



Lesson 2: Specify and partition a whole into equal parts, identifying and counting unit fractions by folding fraction strips.

Use your fraction strips as tools to help you solve the following problems.

3. Noah, Pedro, and Sharon share a whole candy bar fairly. Which of your fraction strips shows how they each get an equal part? Draw the candy bar below. Then, label Sharon's fraction of the candy bar.

- 4. To make a garage for his toy truck, Zeno bends a rectangular piece of cardboard in half. He then bends each half in half again. Which of your fraction strips best matches this story?
  - a. What fraction of the original cardboard is each part? Draw and label the matching fraction strip below.

b. Zeno bends a different piece of cardboard in thirds. He then bends each third in half again. Which of your fraction strips best matches this story? Draw and label the matching fraction strip in the space below.



A STORY	OF	UNI	TS
---------	----	-----	----

Name	Date
	Date

1. Circle the strips that are cut into equal parts.

2.		
	a.	There are equal parts in all is shaded.
	b.	There are equal parts in all is shaded.
	C.	There are equal parts in all is shaded.
	d.	There are equal parts in all are shaded.



©2015 Great Minds. eureka-math.org G3-M 5-SE-1.3.1-11.2015 3. Dylan plans to eat 1 fifth of his candy bar. His 4 friends want him to share the rest equally. Show how Dylan and his friends can each get an equal share of the candy bar.

- 4. Nasir baked a pie and cut it in fourths. He then cut each piece in half.
  - a. What fraction of the original pie does each piece represent?

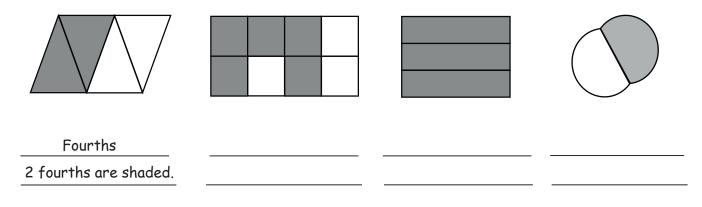
b. Nasir ate 1 piece of pie on Tuesday and 2 pieces on Wednesday. What fraction of the original pie was not eaten?



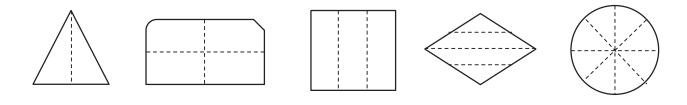
Name \_\_\_\_\_ Date \_\_\_\_\_

**A STORY OF UNITS** 

1. Each shape is a whole divided into equal parts. Name the fractional unit, and then count and tell how many of those units are shaded. The first one is done for you.



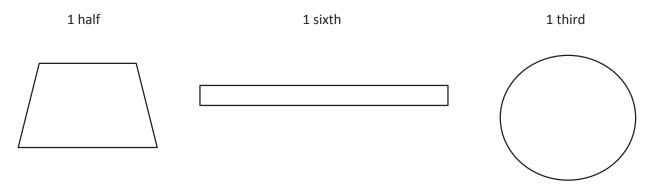
2. Circle the shapes that are divided into equal parts. Write a sentence telling what *equal parts* means.



3. Each shape is 1 whole. Estimate to divide each into 4 equal parts. Name the fractional unit below.

Fractional unit:		••		
EUREKA MATH	Lesson 3:	Specify and partition a whole into equal parts, identifying and counting unit fractions by drawing pictorial area models.	2	)

 4. Each shape is 1 whole. Divide and shade to show the given fraction.



5. Each shape is 1 whole. Estimate to divide each into equal parts (do not draw fourths). Divide each whole using a different fractional unit. Write the name of the fractional unit on the line below the shape.



6. Charlotte wants to equally share a candy bar with 4 friends. Draw Charlotte's candy bar. Show how she can divide her candy bar so everyone gets an equal share. What fraction of the candy bar does each person receive?

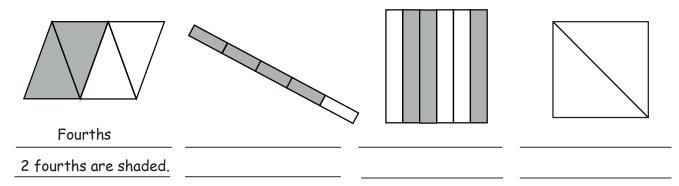
Each person receives \_\_\_\_\_



Specify and partition a whole into equal parts, identifying and counting unit fractions by drawing pictorial area models.

Name	Date	

1. Each shape is a whole divided into equal parts. Name the fractional unit, and then count and tell how many of those units are shaded. The first one is done for you.



2. Each shape is 1 whole. Estimate to divide each into equal parts. Divide each whole using a different fractional unit. Write the name of the fractional unit on the line below the shape.



3. Anita uses 1 sheet of paper to make a calendar showing each month of the year. Draw Anita's calendar. Show how she can divide her calendar so that each month is given the same space. What fraction of the calendar does each month receive?

Each month receives \_\_\_\_\_



Specify and partition a whole into equal parts, identifying and counting unit fractions by drawing pictorial area models.

Α	ST	Ο	RY	OF	UN	ITS

Name \_\_\_\_\_ Date \_\_\_\_\_

1. Draw a picture of the yellow strip at 3 (or 4) different stations. Shade and label 1 fractional unit of each.

2. Draw a picture of the brown bar at 3 (or 4) different stations. Shade and label 1 fractional unit of each.

3. Draw a picture of the square at 3 (or 4) different stations. Shade and label 1 fractional unit of each.



4. Draw a picture of the clay at 3 (or 4) different stations. Shade and label 1 fractional unit of each.

5. Draw a picture of the water at 3 (or 4) different stations. Shade and label 1 fractional unit of each.

6. Extension: Draw a picture of the yarn at 3 (or 4) different stations.



A STORY OF UNITS	Lesson 4 Homework	3•5
Name Each shape is 1 whole. Estimate to equally partition the shap	Date be and shade to show the given	
1. 1 half A B	(	D
2. 1 fourth $A$ B		D
3. 1 third A B	]	D



4. Each of the shapes represents 1 whole. Match each shape to its fraction.

1 fifth	
1 twelfth	
1 third	
1 fourth	
1 half	
1 eighth	
1 tenth	
1 sixth	
EIIDEVA Lesson 4: Repre	esent and identify fractional parts of different wholes.



Lesson 5:

**EUREKA** 

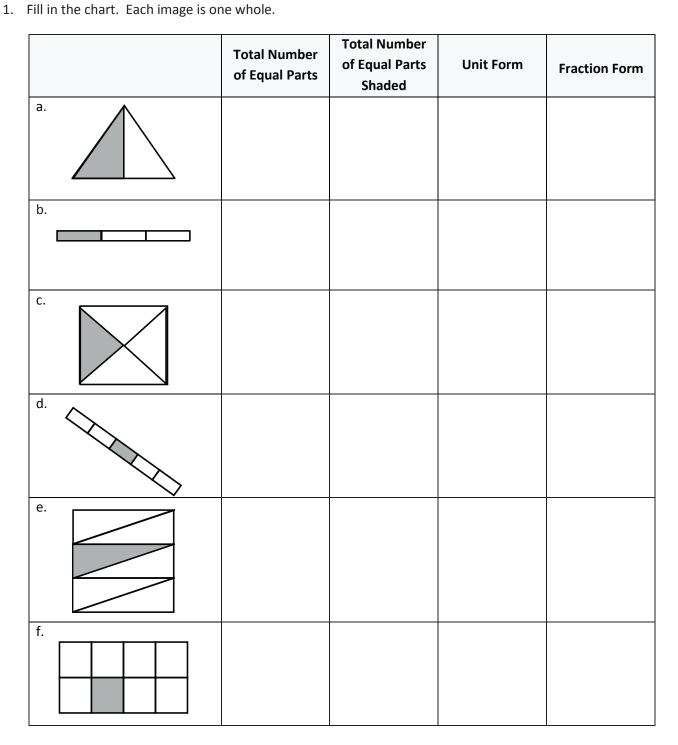
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Partition a whole into equal parts and define the equal parts to identify the unit fraction numerically.

16

A STORY OF UNITS

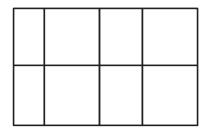
Name\_\_\_\_\_



Lesson 5 Problem Set 3.5

Date \_\_\_\_\_

 Andre's mom baked his 2 favorite cakes for his birthday party. The cakes were the exact same size. Andre cut his first cake into 8 pieces for him and his 7 friends. The picture below shows how he cut it. Did Andre cut the cake into eighths? Explain your answer.



3. Two of Andre's friends came late to his party. They decide they will all share the second cake. Show how Andre can slice the second cake so that he and his nine friends can each get an equal amount with none leftover. What fraction of the second cake will they each receive?



4. Andre thinks it's strange that  $\frac{1}{10}$  of the cake would be less than  $\frac{1}{8}$  of the cake since ten is bigger than eight. To explain to Andre, draw 2 identical rectangles to represent the cakes. Show 1 tenth shaded on one and 1 eighth shaded on the other. Label the unit fractions and explain to him which slice is bigger.





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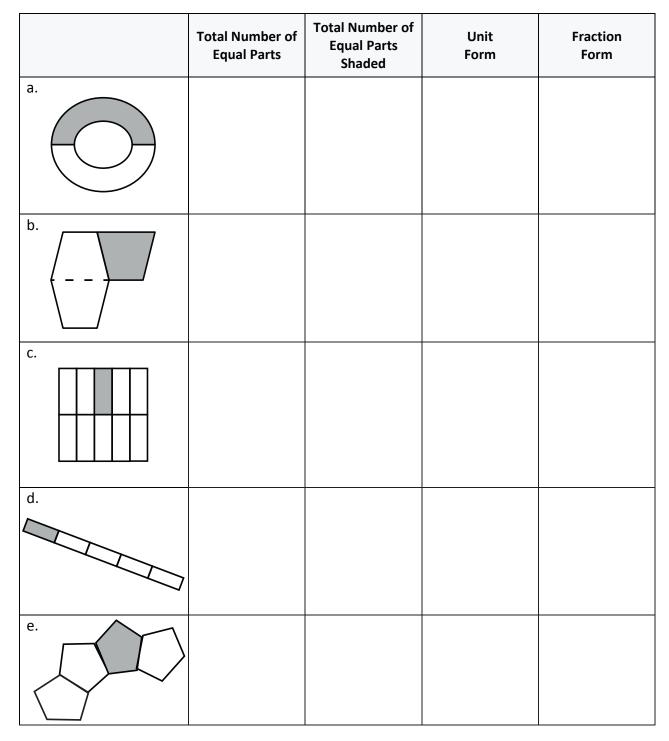
Partition a whole into equal parts and define the equal parts to identify the unit fraction numerically.

18

Name\_\_\_\_\_

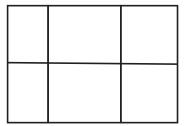
Date \_\_\_\_\_

1. Fill in the chart. Each image is one whole.

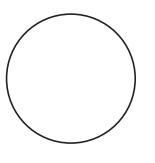


Lesson 5 Homework 3•5

2. This figure is divided into 6 parts. Are they sixths? Explain your answer.



3. Terry and his 3 friends baked a pizza during his sleepover. They want to share the pizza equally. Show how Terry can slice the pizza so that he and his 3 friends can each get an equal amount with none left over.



4. Draw two identical rectangles. Shade 1 seventh of one rectangle and 1 tenth of the other. Label the unit fractions. Use your rectangles to explain why  $\frac{1}{7}$  is greater than  $\frac{1}{10}$ .



 Partition a whole into equal parts and define the equal parts to identify the unit fraction numerically. A STORY OF UNITS

Name \_\_\_\_\_ Date \_\_\_\_\_

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

Sample:

2	مام ناخ	2
Z	thirds =	3

1	1	1
3	3	3

a. 3 fourths =

b.	3 sevenths =

L				

c. 4 fifths =

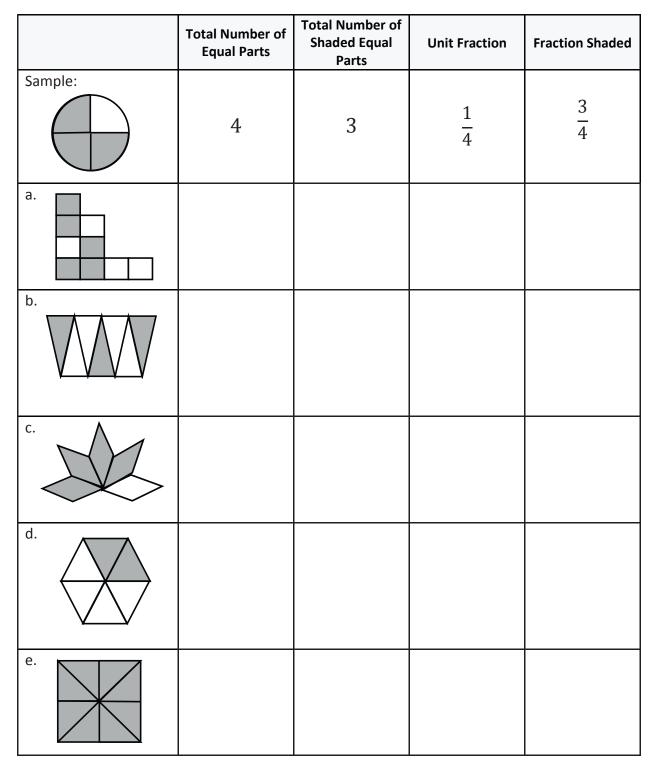
d. 2 sixths =

- 2. Mr. Stevens bought 8 liters of soda for a party. His guests drank 1 liter.
  - a. What fraction of the soda did his guests drink?

b. What fraction of the soda was left?



3. Fill in the chart.





**A STORY OF UNITS** 

Date \_\_\_\_\_ Name\_\_\_\_\_

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

Sample:

3 fourths = $\frac{3}{-}$	1	1	1	1
4	$\overline{4}$	$\overline{4}$	$\overline{4}$	4

a. 2 thirds =

b. 5 sevenths =

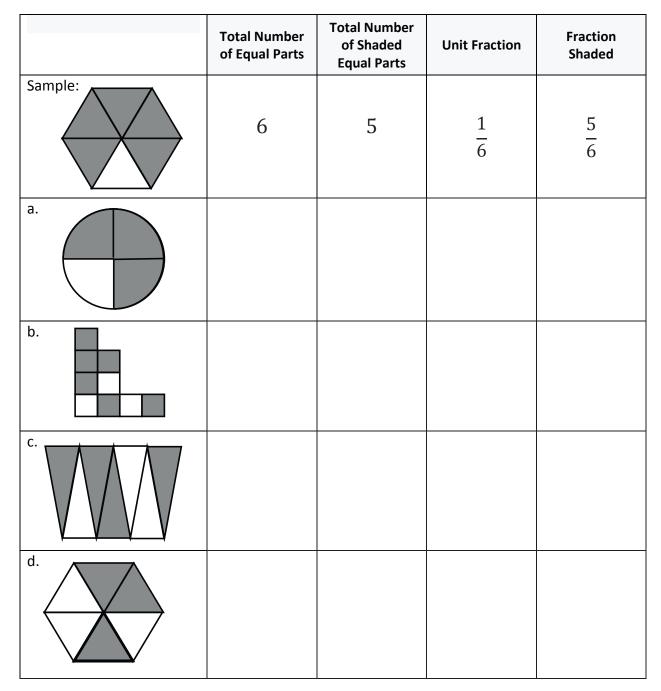
c. 3 fifths =

d. 2 eighths =

- 2. Mr. Abney bought 6 kilograms of rice. He cooked 1 kilogram of it for dinner.
  - a. What fraction of the rice did he cook for dinner?
  - b. What fraction of the rice was left?



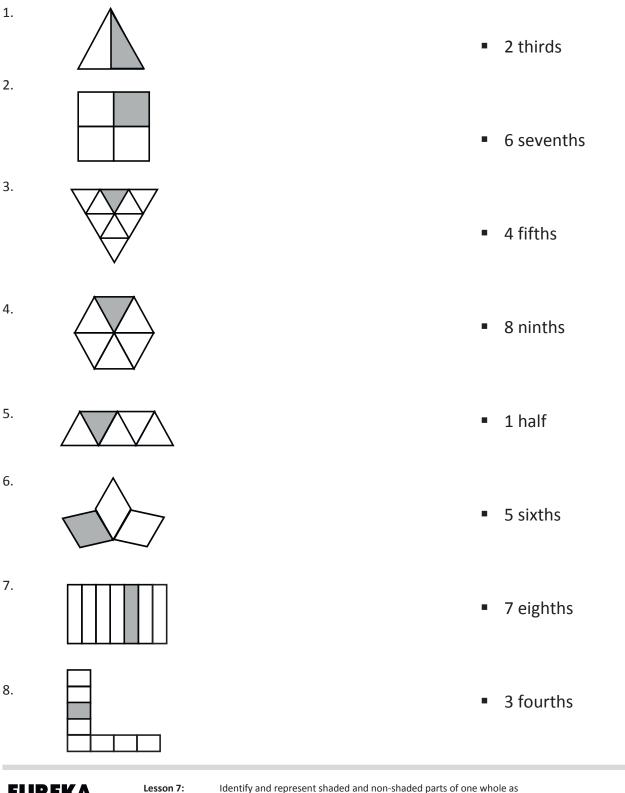
3. Fill in the chart.





Name\_\_\_\_\_ Date\_\_\_\_\_

Whisper the fraction of the shape that is shaded. Then, match the shape to the amount that is <u>not</u> shaded.



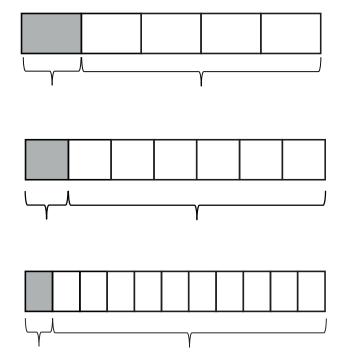


Identify and represent shaded and non-shaded parts of one whole as fractions.

9. a. How many eighths are in 1 whole? \_\_\_\_\_

- b. How many ninths are in 1 whole? \_\_\_\_\_
- c. How many twelfths are in 1 whole?

10. Each strip represents 1 whole. Write a fraction to label the shaded and unshaded parts.

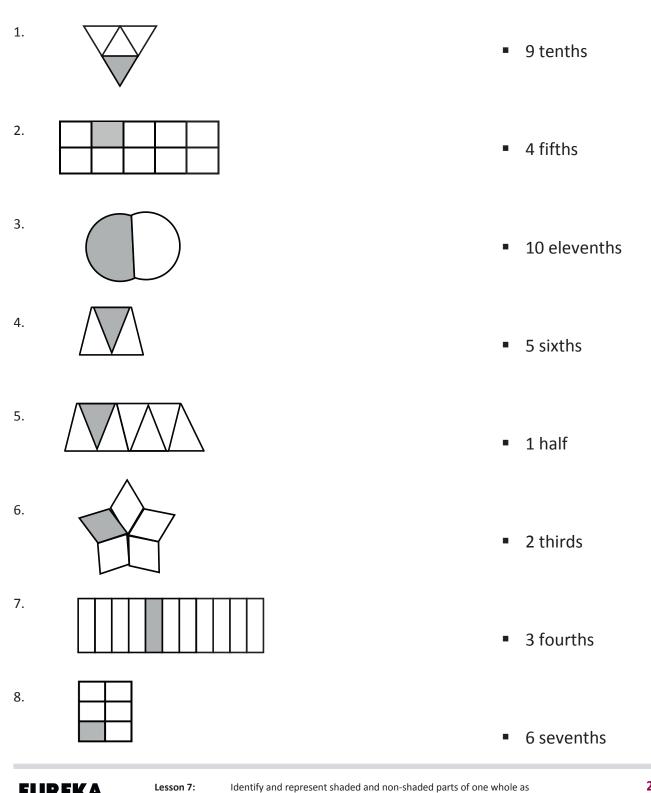


11. Avanti read 1 sixth of her book. What fraction of the book has she not read yet?



Date \_\_\_\_\_ Name \_\_\_\_\_

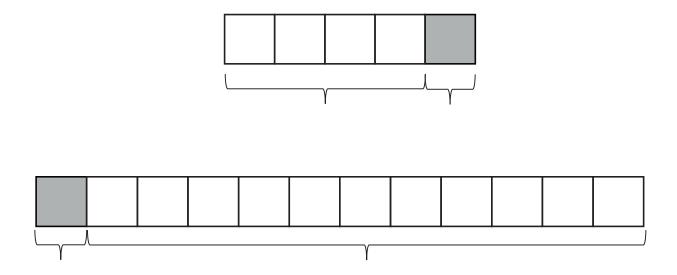
Whisper the fraction of the shape that is shaded. Then, match the shape to the amount that is <u>not</u> shaded.





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

9. Each strip represents 1 whole. Write a fraction to label the shaded and unshaded parts.



10. Carlia finished 1 fourth of her homework on Saturday. What fraction of her homework has she not finished? Draw and explain.

11. Jerome cooks 8 cups of oatmeal for his family. They eat 7 eighths of the oatmeal. What fraction of the oatmeal is uneaten? Draw and explain.

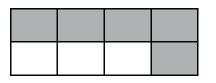


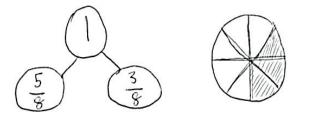
Name \_\_\_\_\_

Date \_\_\_\_\_

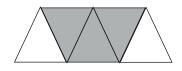
Show a number bond representing what is shaded and unshaded in each of the figures. Draw a different visual model that would be represented by the same number bond.

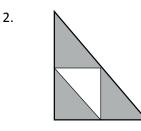
Sample:

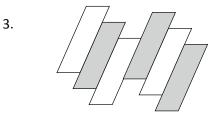




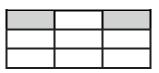
1.





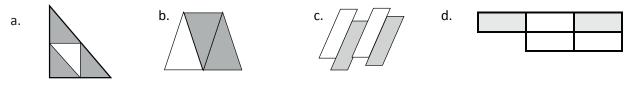


4.





5. 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.



6. The chef put  $\frac{1}{4}$  of the ground beef on the grill to make one hamburger and put the rest in the refrigerator. Draw a 2-part number bond showing the fraction of the ground beef on the grill and the fraction in the refrigerator. Draw a visual model of all the ground beef. Shade what is in the refrigerator.

- a. What fraction of the ground beef was in the refrigerator?
- b. How many more hamburgers can the chef make if he makes them all the same size as the first one?
- c. Show the refrigerated ground beef broken into unit fractions on your number bond above.

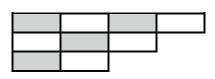


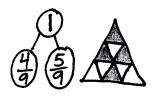
Name \_\_\_\_\_

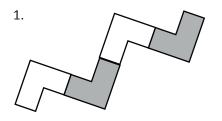
Date \_\_\_\_\_

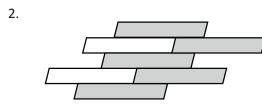
Show a number bond representing what is shaded and unshaded in each of the figures. Draw a different visual model that would be represented by the same number bond.

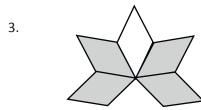
Sample:



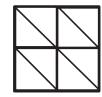






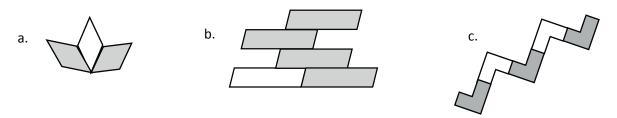


4.





5. 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.



6. Johnny made a square peanut butter and jelly sandwich. He ate  $\frac{1}{3}$  of it and left the rest on his plate. Draw a picture of Johnny's sandwich. Shade the part he left on his plate, and then draw a number bond that matches what you drew. What fraction of his sandwich did Johnny leave on his plate?



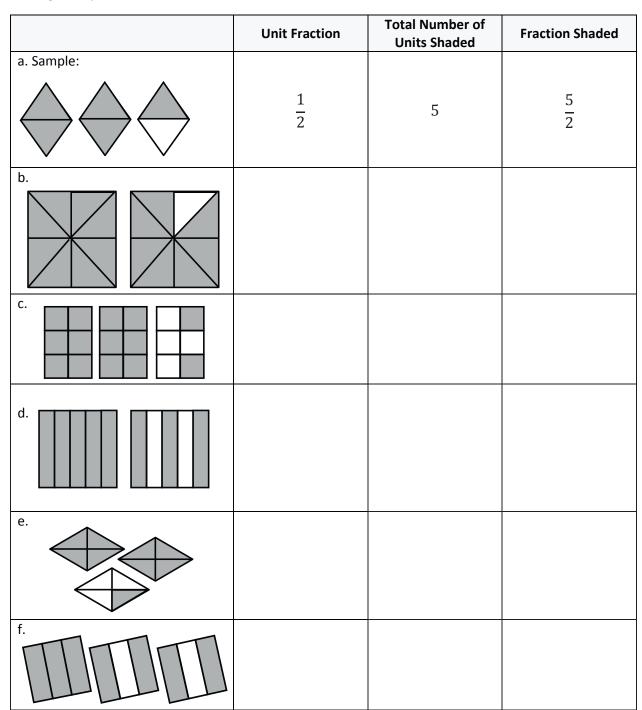
Lesson 9: Build and write fractions greater than one whole using unit fractions.

EUREKA ATH



Name \_\_\_\_\_

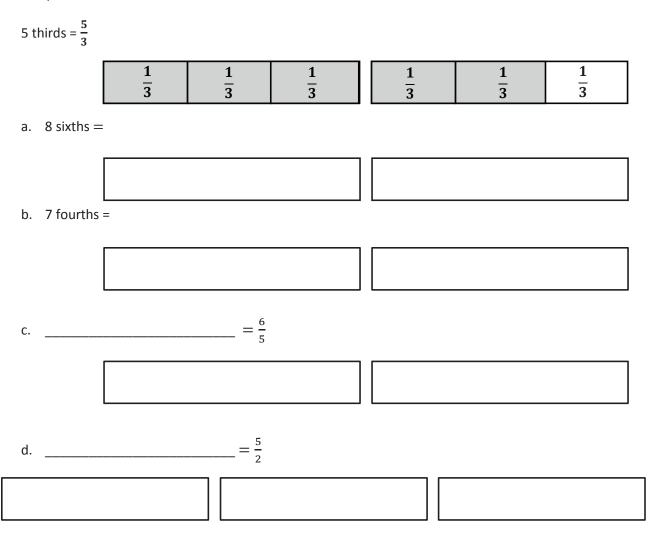
1. Each figure represents 1 whole. Fill in the chart.



Date \_\_\_\_\_

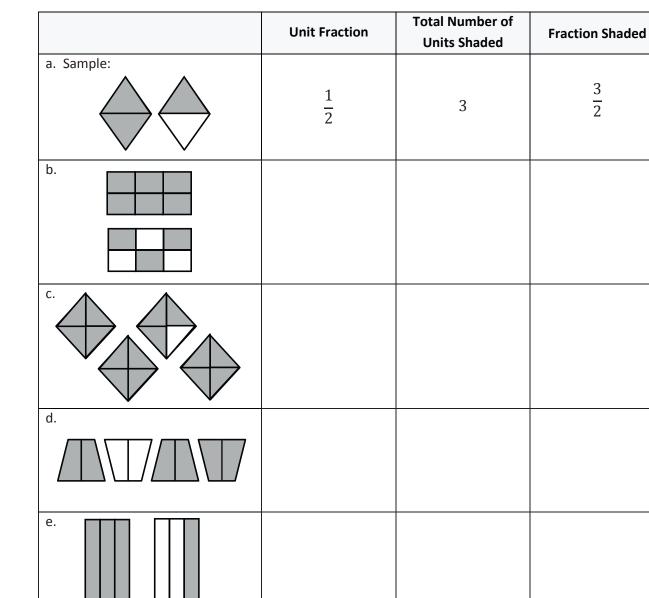
32

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



- 3. Mrs. Jawlik baked 2 pans of brownies. Draw the pans and estimate to partition each pan into 8 equal pieces.
  - a. Mrs. Jawlik's children gobbled up 10 pieces. Shade the amount that was eaten.
  - b. Write a fraction to show how many pans of brownies her children ate.





1. Each shape represents 1 whole. Fill in the chart.

Name\_\_\_\_\_

f.

EUREKA MATH

A STORY OF UNITS

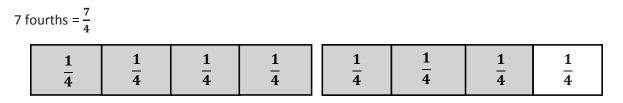
Lesson 9 Homework 3•5

Date \_\_\_\_\_

34

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

Sample:



## a. 5 thirds =



b. \_\_\_\_\_ = 
$$\frac{9}{3}$$

3. Reggie bought 2 candy bars. Draw the candy bars and estimate to partition each bar into 4 equal pieces.

- a. Reggie ate 5 pieces. Shade the amount he ate.
- b. Write a fraction to show how many candy bars Reggie ate.

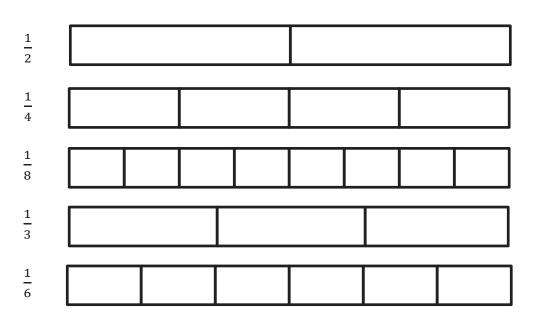


A STORY OF UNITS

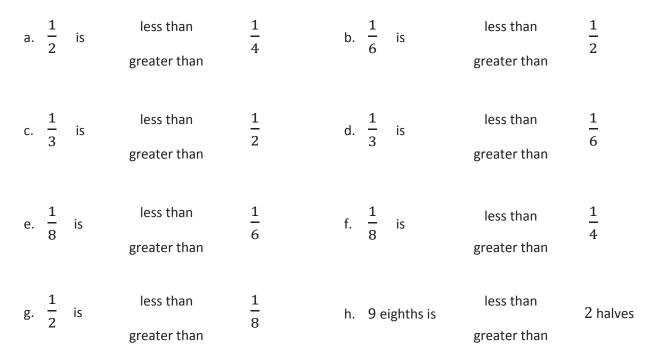
Name \_\_\_\_\_

Date \_\_\_\_\_

1. 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.



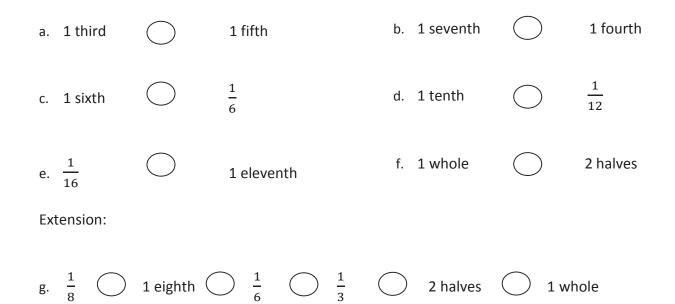
2. Circle less than or greater than. Whisper the complete sentence.





3. Lily needs  $\frac{1}{3}$  cup of oil and  $\frac{1}{4}$  cup of water to make muffins. Will Lily use more oil or more water? Explain your answer using pictures, numbers, and words.

4. Use >, <, or = to compare.



5. Your friend Eric says that  $\frac{1}{6}$  is greater than  $\frac{1}{5}$  because 6 is greater than 5. Is Eric correct? Use words and pictures to explain what happens to the size of a unit fraction when the number of parts gets larger.

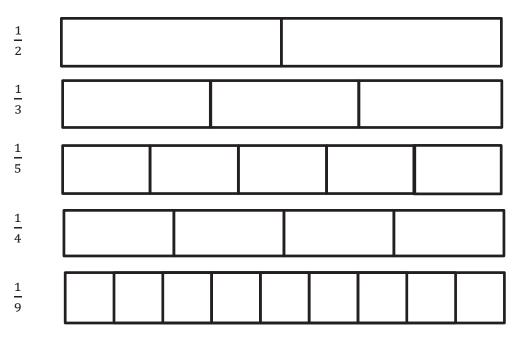


A STORY OF UNITS

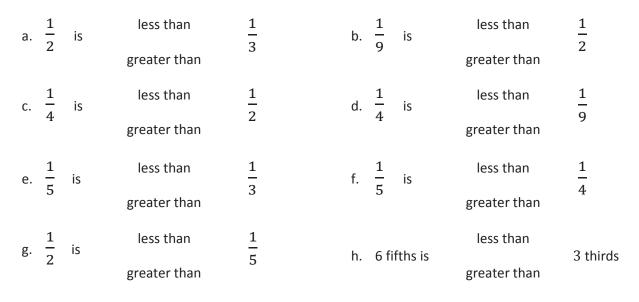
Name \_\_\_\_

Date \_\_\_\_\_

1. 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.

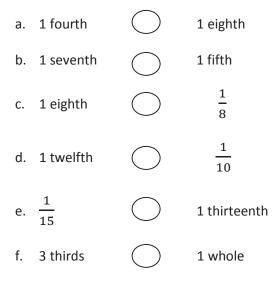


2. Circle less than or greater than. Whisper the complete sentence.



3. After his football game, Malik drinks  $\frac{1}{2}$  liter of water and  $\frac{1}{3}$  liter of juice. Did Malik drink more water or juice? Draw and estimate to partition. Explain your answer.

## 4. Use >, <, or = to compare.



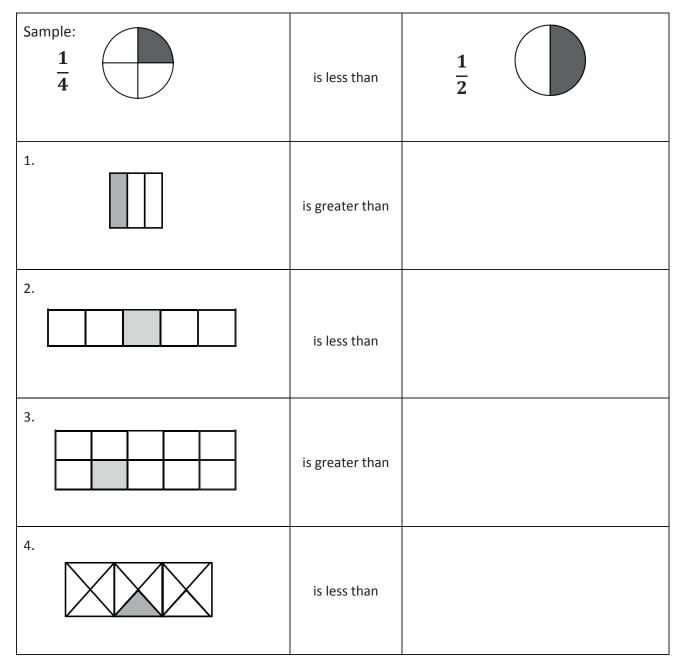
5. Write a word problem about comparing fractions for your friends to solve. Be sure to show the solution so that your friends can check their work.



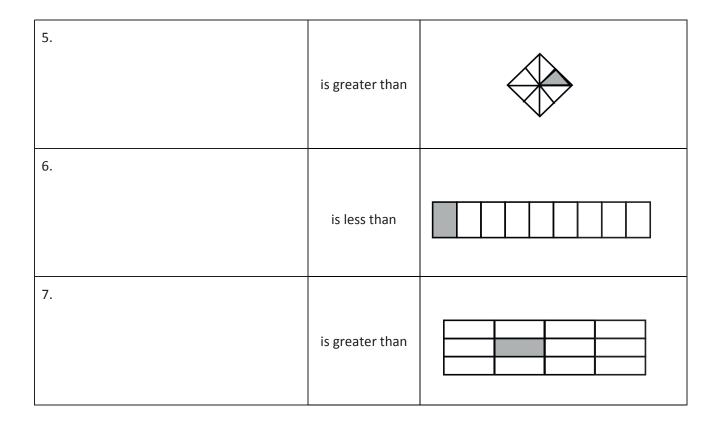
Name \_\_\_\_\_

Date \_\_\_\_\_

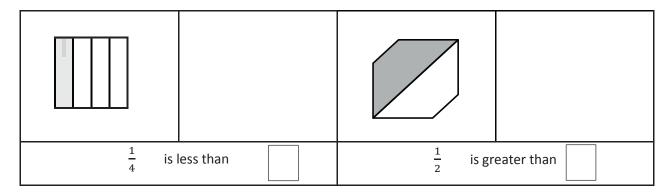
Label the unit fraction. In each blank, draw and label the same whole with a shaded unit fraction that makes the sentence true. There is more than 1 correct way to make the sentence true.





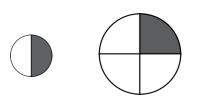


8. Fill in the blank with a fraction to make the statement true, and draw a matching model.



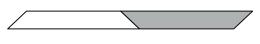


9. Robert ate  $\frac{1}{2}$  of a small pizza. Elizabeth ate  $\frac{1}{4}$  of a large pizza. Elizabeth says, "My piece was larger than yours, so that means  $\frac{1}{4} > \frac{1}{2}$ ." Is Elizabeth correct? Explain your answer.

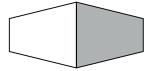


10. Manny and Daniel each ate  $\frac{1}{2}$  of his candy, as shown below. Manny said he ate more candy than Daniel because his half is longer. Is he right? Explain your answer.

Manny's Candy Bar



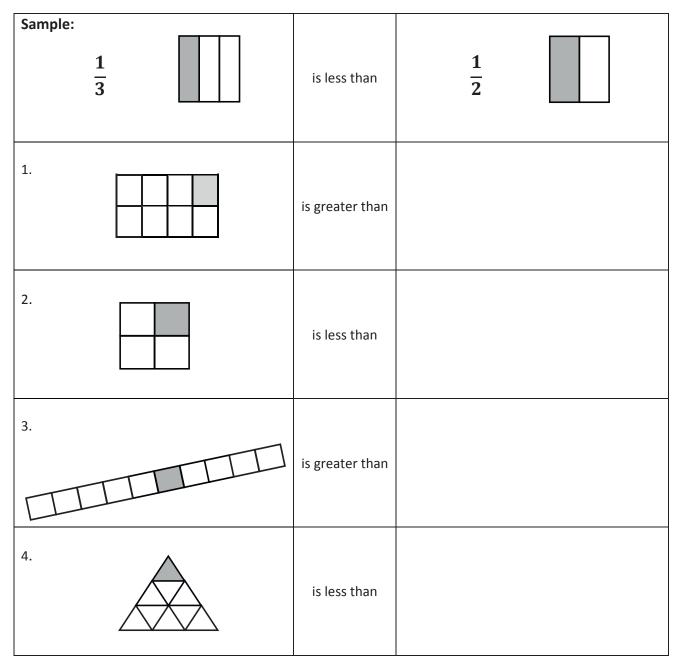
Daniel's Candy Bar



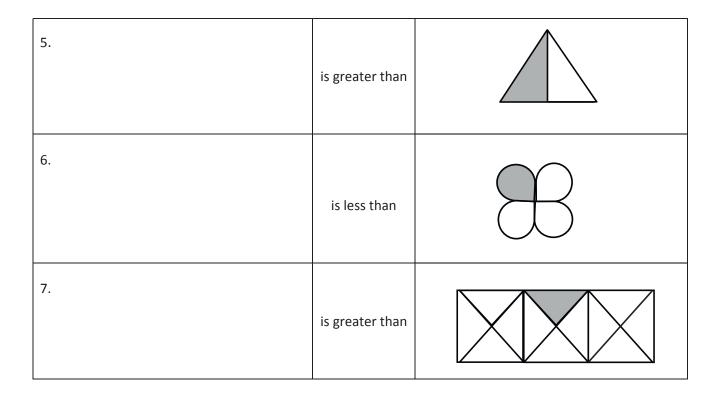
Name\_\_\_\_\_

Date \_\_\_\_\_

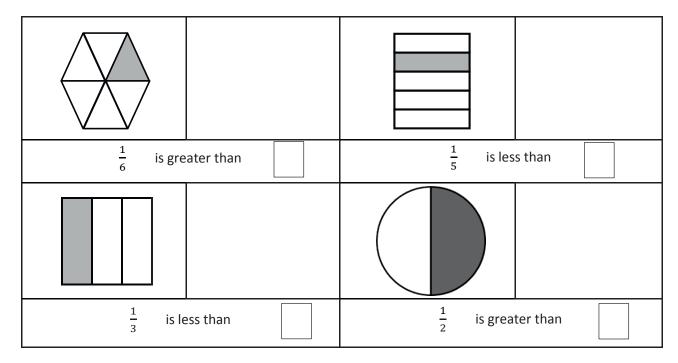
Label the unit fraction. In each blank, draw and label the same whole with a shaded unit fraction that makes the sentence true. There is more than 1 correct way to make the sentence true.







8. Fill in the blank with a fraction to make the statement true. Draw a matching model.





- 9. Debbie ate  $\frac{1}{8}$  of a large brownie. Julian ate  $\frac{1}{2}$  of a small brownie. Julian says, "I ate more than you because  $\frac{1}{2} > \frac{1}{8}$ ."
  - a. Use pictures and words to explain Julian's mistake.

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

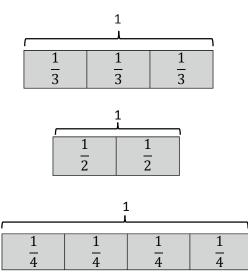


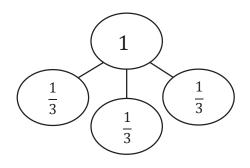
Name \_\_\_\_\_

Date \_\_\_\_\_

For each of the following:

- Draw a picture of the designated unit fraction copied to make at least two different wholes.
- Label the unit fractions.
- Label the whole as 1.
- Draw at least one number bond that matches a drawing.





1. Yellow strip

2. Brown strip



3. Orange square

4. Yarn

5. Water

6. Clay

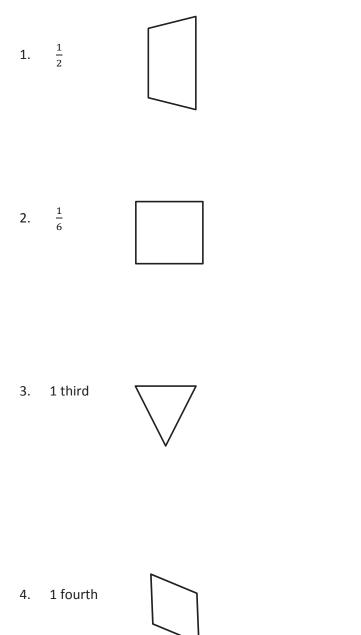


Α	ST	0	RY	OF	UN	ITS

Name \_\_\_\_\_

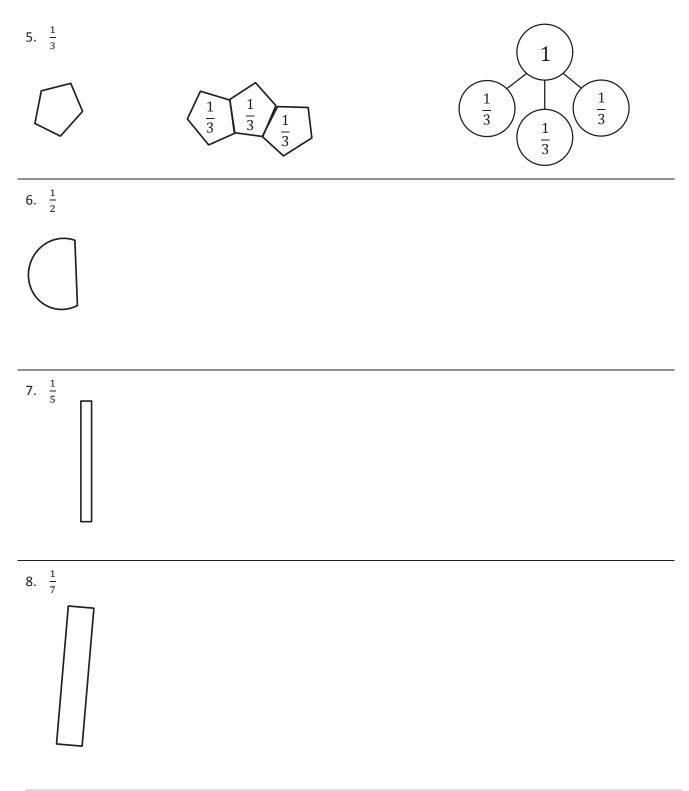
Date \_\_\_\_\_

Each shape represents the given unit fraction. Estimate to draw a possible whole.





Each shape represents the given unit fraction. Estimate to draw a possible whole, label the unit fractions, and draw a number bond that matches the drawing. The first one is done for you.



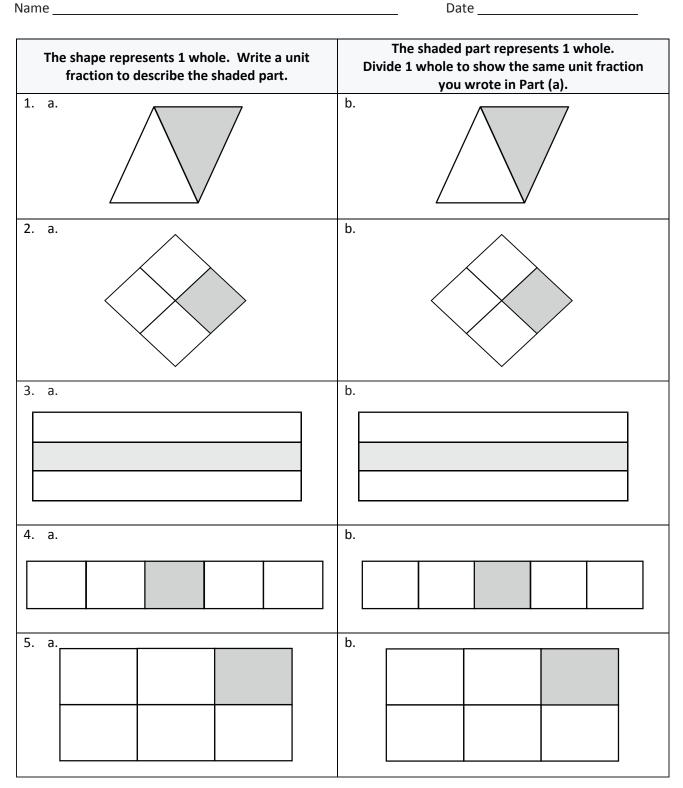
9. Evan and Yong used this shape  $\bigcirc$ , representing the unit fraction  $\frac{1}{3}$ , to draw 1 whole. Shania thinks both of them did it correctly. Do you agree with her? Explain your answer.

> Evan's Shape

Yong's

Shape







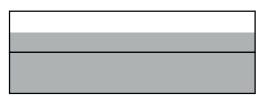
Lesson 13:

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

6. Use the diagram below to complete the following statements.

	Rope A			
	Rope B			
	Rope C		]	
a.	Rope	is $\frac{1}{2}$ the length of Rope B.		
b.	Rope	is $\frac{1}{2}$ the length of Rope A.		
c.	Rope C is $\frac{1}{4}$ t	he length of Rope		
d.	If Rope B me long.	easures 1 m long, then Rope A is	m long, and Rope C is	m
e.	If Rope A me	easures 1 m long, Rope B is	m long, and Rope C is	m long

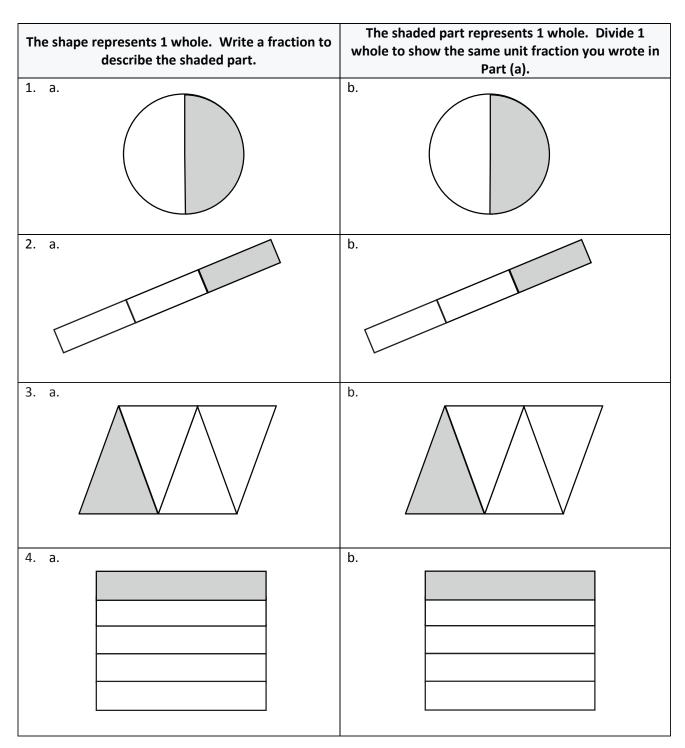
7. Ms. Fan drew the figure below on the board. She asked the class to name the shaded fraction. Charlie answered  $\frac{3}{4}$ . Janice answered  $\frac{3}{2}$ . Jenna thinks they're both right. With whom do you agree? Explain your thinking.





Name\_\_\_\_\_

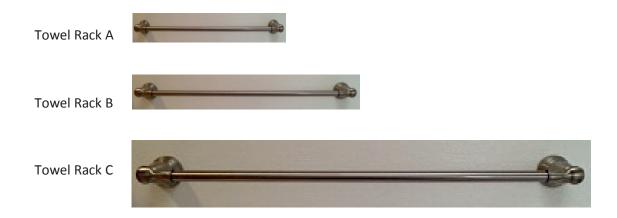
Date \_\_\_\_\_



Lesson 13:

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

5. Use the pictures below to complete the following statements.



- a. Towel Rack \_\_\_\_\_\_ is about  $\frac{1}{2}$  the length of Towel Rack C.
- b. Towel Rack \_\_\_\_\_\_ is about  $\frac{1}{3}$  the length of Towel Rack C.
- c. If Towel Rack C measures 6 ft long, then Towel Rack B is about \_\_\_\_\_\_ ft long, and Towel Rack A is about \_\_\_\_\_\_ ft long.
- d. About how many copies of Towel Rack A equal the length of Towel Rack C? Draw number bonds to help you.
- e. About how many copies of Towel Rack B equal the length of Towel Rack C? Draw number bonds to help you.



- 6. Draw 3 strings—B, C, and D—by following the directions below. String A is already drawn for you.
  - String B is  $\frac{1}{3}$  of String A.
  - String C is  $\frac{1}{2}$  of String B.
  - String D is  $\frac{1}{3}$  of String C.

Extension: String E is 5 times the length of String D.

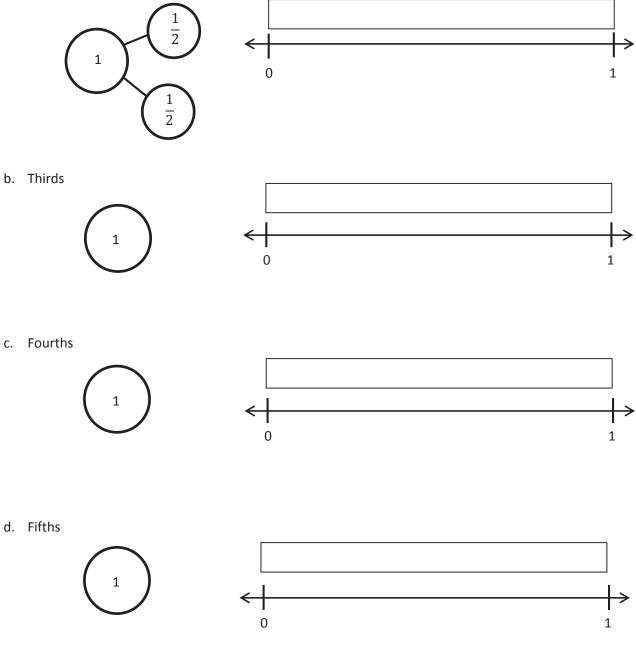
## String A Reality String



Name \_\_\_\_\_

Date \_\_\_\_\_

- 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. Halves





Trevor needs to let his puppy outside every quarter (1 fourth) hour to potty train him. Draw and label a number line from 0 hours to 1 hour to show every 1 fourth hour. Include 0 fourths and 4 fourths hour. Label 0 hours and 1 hour, too.

3. A ribbon is 1 meter long. Mrs. Lee wants to sew 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 will sew beads. Label all the fractions, including 0 fifths and 5 fifths. Label 0 meters and 1 meter, too.

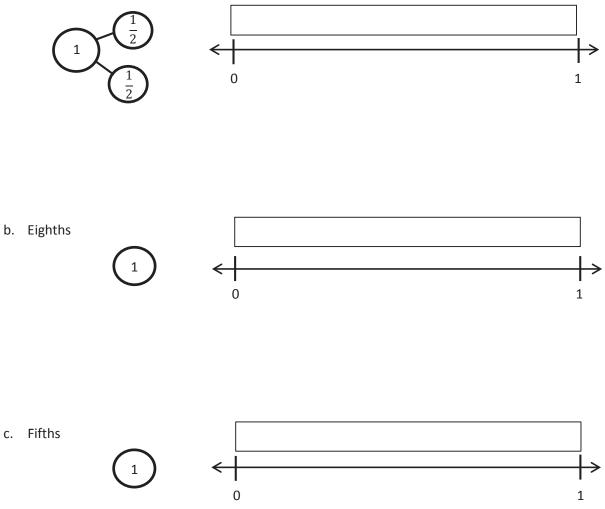


A S	TORY	OF	UNITS

Name \_\_\_\_

Date \_\_\_\_\_

- 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. Halves





2. Carter needs to wrap 7 presents. He lays the ribbon out flat and says, "If I make 6 equally spaced cuts, I'll have just enough pieces. I can use 1 piece for each package, and I won't have any pieces left over." Does he have enough pieces to wrap all the presents?

3. Mrs. Rivera is planting flowers in her 1-meter long rectangular plant box. She divides the plant box into sections  $\frac{1}{9}$  meter in length, and plants 1 seed in each section. Draw and label a fraction strip representing the plant box from 0 meters to 1 meter. Represent each section where Mrs. Rivera will plant a seed. Label all the fractions.

a. How many seeds will she be able to plant in 1 plant box?

b. How many seeds will she be able to plant in 4 plant boxes?

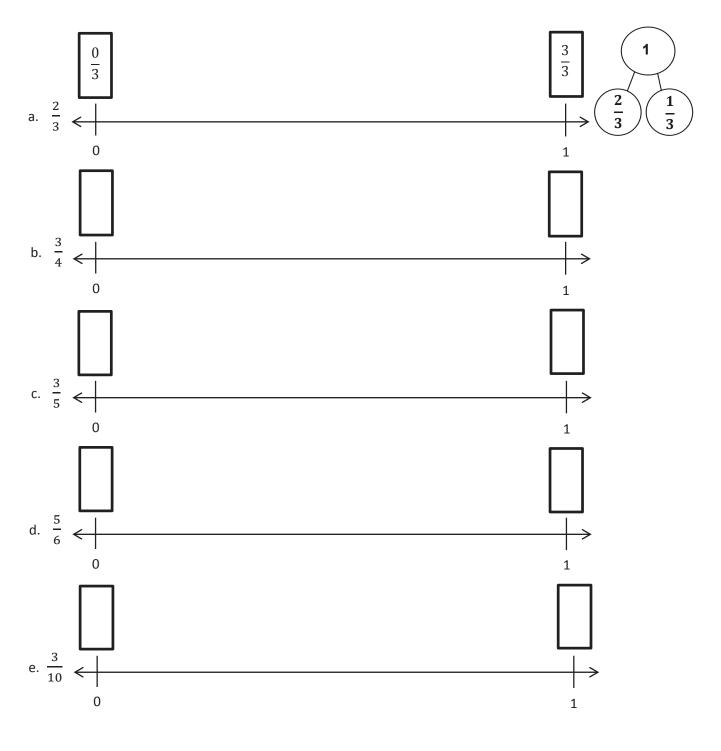
c. Draw a number line below your fraction strip and mark all the fractions.



Name \_\_\_\_\_

Date \_\_\_\_\_

Estimate to label the given fractions on the number line. Be sure to label the fractions at 0 and 1.
Write the fractions above the number line. Draw a number bond to match your number line.





2. Draw a number line. Use a fraction strip to locate 0 and 1. Fold the strip to make 8 equal parts. Use the strip to measure and label your number line with eighths.

Count up from 0 eighths to 8 eighths on your number line. Touch each number with your finger as you count.

3. For his boat, James stretched out a rope with 5 equally spaced knots as shown.

• • • • •

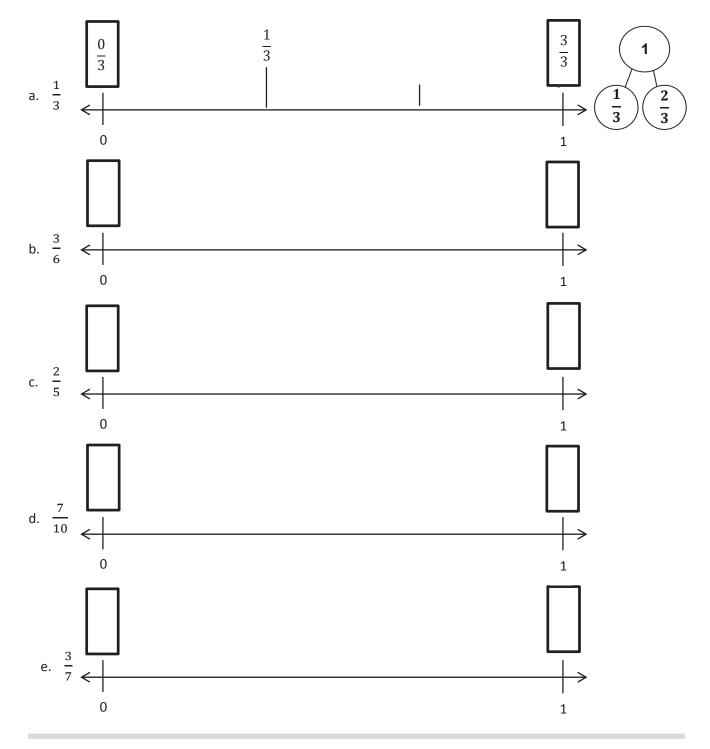
- a. Starting at the first knot and ending at the last knot, how many equal parts are formed by the 5 knots? Label each fraction at the knot.
- b. What fraction of the rope is labeled at the third knot?
- c. What if the rope had 6 equally spaced knots along the same length? What fraction of the rope would be measured by the first 2 knots?



Name \_\_\_\_\_

Date \_\_\_\_\_

1. Estimate to label the given fractions on the number line. Be sure to label the fractions at 0 and 1. Write the fractions above the number line. Draw a number bond to match your number line. The first one is done for you.





Lesson 15: Place any fraction on a number line with endpoints 0 and 1.

- 2. Henry has 5 dimes. Ben has 9 dimes. Tina has 2 dimes.
  - a. Write the value of each person's money as a fraction of a dollar:

Henry:

Ben:

Tina:

b. Estimate to place each fraction on the number line.



- 3. Draw a number line. Use a fraction strip to locate 0 and 1. Fold the strip to make 8 equal parts.
  - a. Use the strip to measure and label your number line with eighths.

b. Count up from 0 eighths to 8 eighths on your number line. Touch each number with your finger as you count.

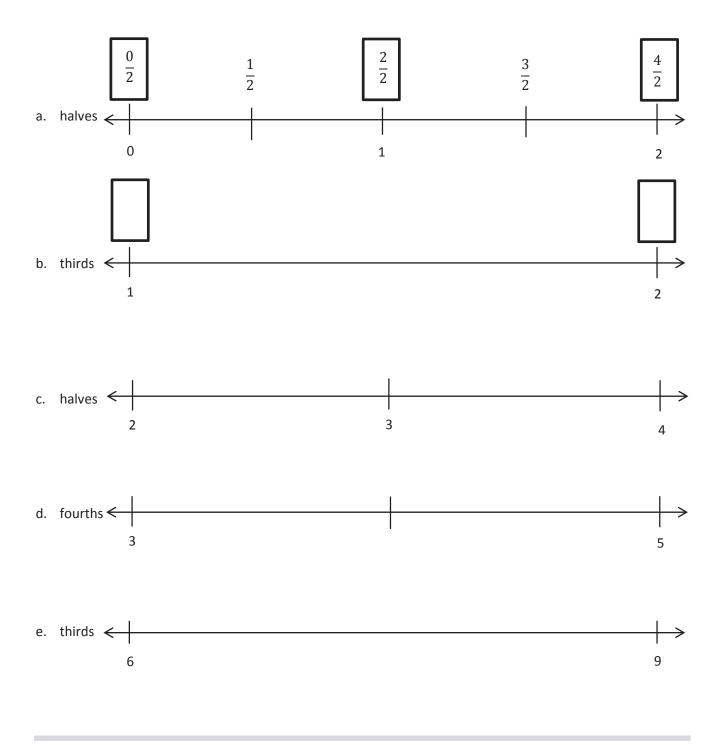


A STORY OF UNITS

Name \_\_\_\_\_

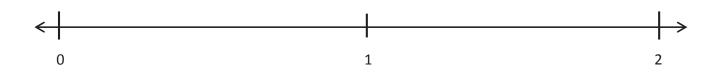
Date \_\_\_\_\_

1. Estimate to equally partition and label the fractions on the number line. Label the wholes as fractions, and box them. The first one is done for you.

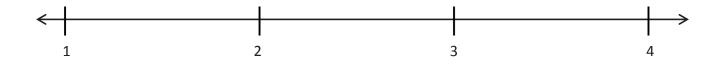




2. Partition each whole into fifths. Label each fraction. Count up as you go. Box the fractions that are located at the same points as whole numbers.



3. Partition each whole into thirds. Label each fraction. Count up as you go. Box the fractions that are located at the same points as whole numbers.



4. Draw a number line with endpoints 0 and 3. Label the wholes. Partition each whole into fourths. Label all the fractions from 0 to 3. Box the fractions that are located at the same points as whole numbers. Use a separate paper if you need more space.

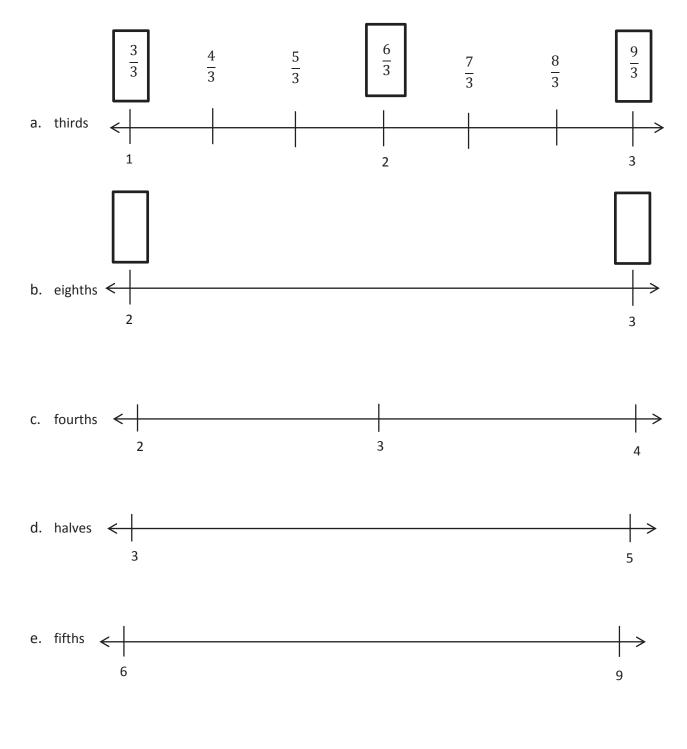


A STORY OF UNITS

Name \_\_\_\_\_

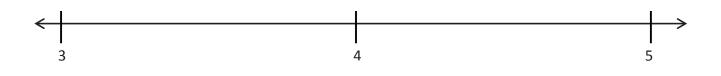
Date \_\_\_\_\_

1. Estimate to equally partition and label the fractions on the number line. Label the wholes as fractions, and box them. The first one is done for you.

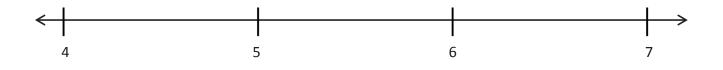




2. Partition each whole into sixths. Label each fraction. Count up as you go. Box the fractions that are located at the same points as whole numbers.



3. Partition each whole into halves. Label each fraction. Count up as you go. Box the fractions that are located at the same points as whole numbers.

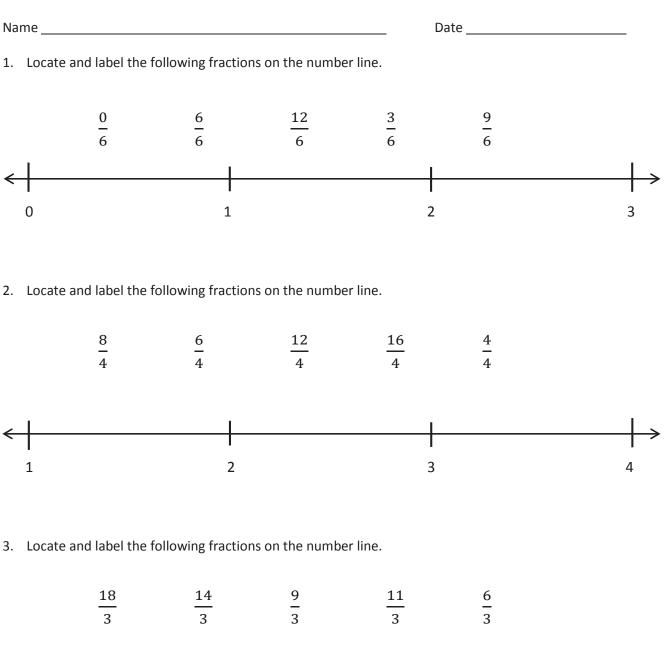


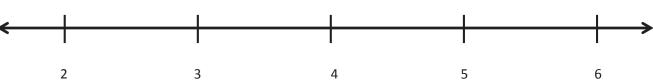
4. Draw a number line with endpoints 0 and 3. Label the wholes. Partition each whole into fifths. Label all the fractions from 0 to 3. Box the fractions that are located at the same points as whole numbers. Use a separate paper if you need more space.



Lesson 17 Problem Set 3 •	Lesson	17 Pro	blem Set	3•5
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A STORY OF UNITS





4. For a measurement project in math class, students measured the lengths of their pinky fingers. Alex's measured 2 inches long. Jerimiah's pinky finger was  $\frac{7}{4}$  inches long. Whose finger is longer? Draw a number line to help prove your answer.

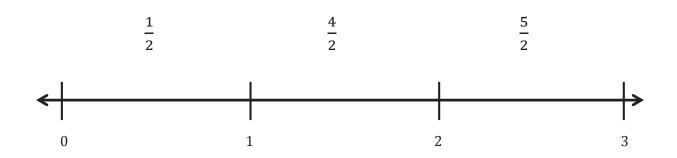
5. Marcy ran 4 kilometers after school. She stopped to tie her shoelace at  $\frac{7}{5}$  kilometers. Then, she stopped to switch songs on her iPod at  $\frac{12}{5}$  kilometers. Draw a number line showing Marcy's run. Include her starting and finishing points and the 2 places where she stopped.



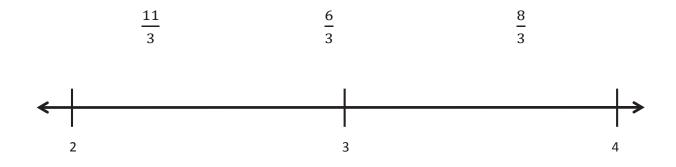
A STORY OF UNITS

Name\_\_\_\_\_ Date\_\_\_\_\_

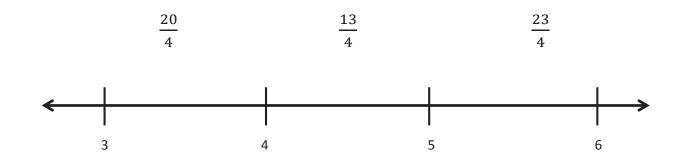
1. Locate and label the following fractions on the number line.



2. Locate and label the following fractions on the number line.

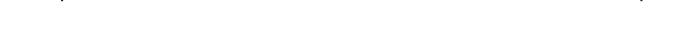


3. Locate and label the following fractions on the number line.

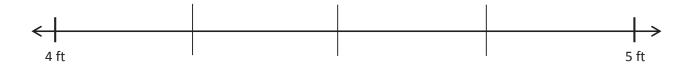




4. Wayne went on a 4-kilometer hike. He took a break at  $\frac{4}{3}$  kilometers. He took a drink of water at  $\frac{10}{3}$  kilometers. Show Wayne's hike on the number line. Include his starting and finishing place and the 2 points where he stopped.



5. Ali wants to buy a piano. The piano measures  $\frac{19}{4}$  feet long. She has a space 5 feet long for the piano in her house. Does she have enough room? Draw a number line to show, and explain your answer.

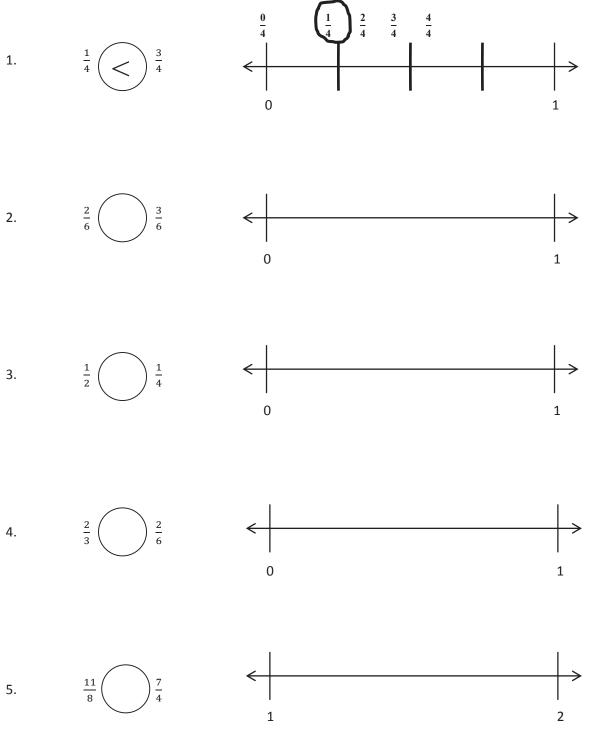




Name

Date \_\_\_\_\_

Place the two fractions on the number line. Circle the fraction with the distance closest to 0. Then, compare using >, <, or =. The first problem is done for you.





Lesson 18: Compare fractions and whole numbers on the number line by reasoning about their distance from 0.

72

6. JoAnn and Lupe live straight down the street from their school. JoAnn walks  $\frac{5}{6}$  miles and Lupe walks  $\frac{7}{8}$  miles home from school every day. Draw a number line to model how far each girl walks. Who walks the least? Explain how you know using pictures, numbers, and words.

7. Cheryl cuts 2 pieces of thread. The blue thread is  $\frac{5}{4}$  meters long. The red thread is  $\frac{4}{5}$  meters long. Draw a number line to model the length of each piece of thread. Which piece of thread is shorter? Explain how you know using pictures, numbers, and words.

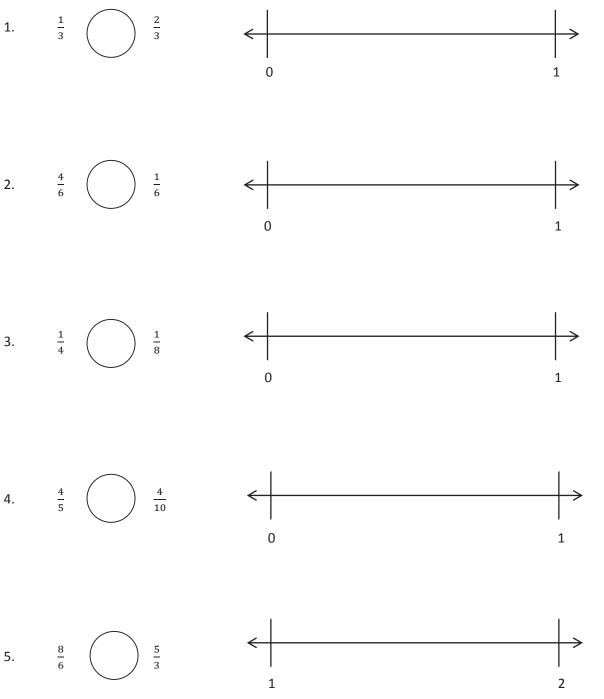
8. Brandon makes homemade spaghetti. He measures 3 noodles. One measures  $\frac{7}{8}$  feet, the second is  $\frac{7}{4}$  feet, and the third is  $\frac{4}{2}$  feet long. Draw a number line to model the length of each piece of spaghetti. Write a number sentence using <, >, or = to compare the pieces. Explain using pictures, numbers, and words.



Name \_\_\_\_

Date \_\_\_\_\_

Place the two fractions on the number line. Circle the fraction with the distance closest to 0. Then, compare using >, <, or =.





Lesson 18: Compare fractions and whole numbers on the number line by reasoning about their distance from 0.

74

6. Liz and Jay each have a piece of string. Liz's string is  $\frac{4}{6}$  yards long, and Jay's string is  $\frac{5}{7}$  yards long. Whose string is longer? Draw a number line to model the length of both strings. Explain the comparison using pictures, numbers, and words.

7. In a long jump competition, Wendy jumped  $\frac{9}{10}$  meters, and Judy jumped  $\frac{10}{9}$  meters. Draw a number line to model the distance of each girl's long jump. Who jumped the shorter distance? Explain how you know using pictures, numbers, and words.

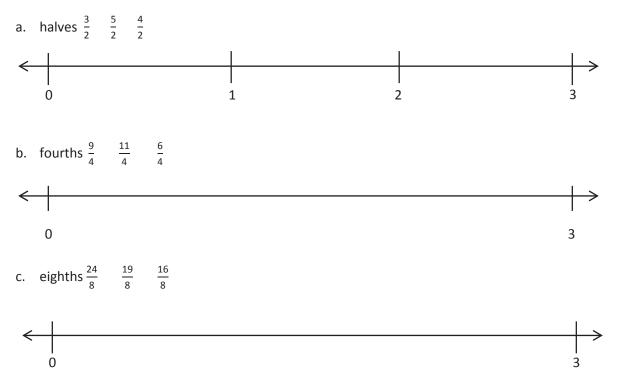
8. Nikki has 3 pieces of yarn. The first piece is  $\frac{5}{6}$  feet long, the second piece is  $\frac{5}{3}$  feet long, and the third piece is  $\frac{3}{2}$  feet long. She wants to arrange them from the shortest to the longest. Draw a number line to model the length of each piece of yarn. Write a number sentence using <, >, or = to compare the pieces. Explain using pictures, numbers, and words.



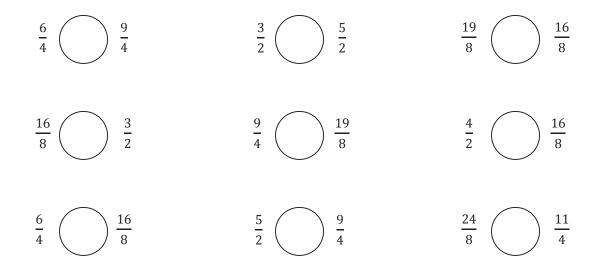
Name \_\_\_\_\_

Date \_\_\_\_\_

1. Divide each number line into the given fractional unit. Then, place the fractions. Write each whole as a fraction.



2. Use the number lines above to compare the following fractions using >, <, or =.





Lesson 19: Understand distance and position on the number line as strategies for comparing fractions. (Optional)

©2015 Great Minds. eureka-math.org G3-M 5-SE-1.3.1-11.2015 3. Choose a *greater than* comparison you made in Problem 2. Use pictures, numbers, and words to explain how you made that comparison.

4. Choose a *less than* comparison you made in Problem 2. Use pictures, numbers, and words to explain a different way of thinking about the comparison than what you wrote in Problem 3.

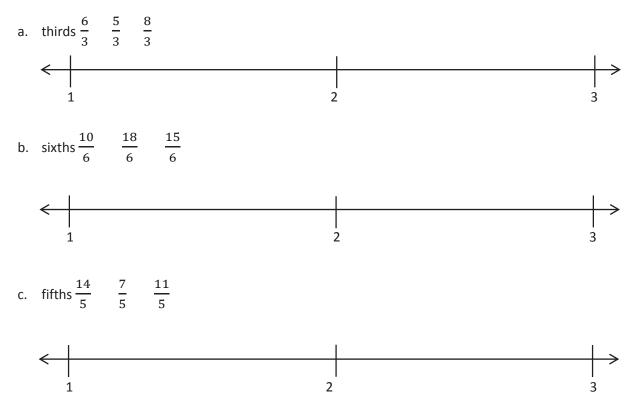
5. Choose an *equal to* comparison you made in Problem 2. Use pictures, numbers, and words to explain two ways that you can prove your comparison is true.



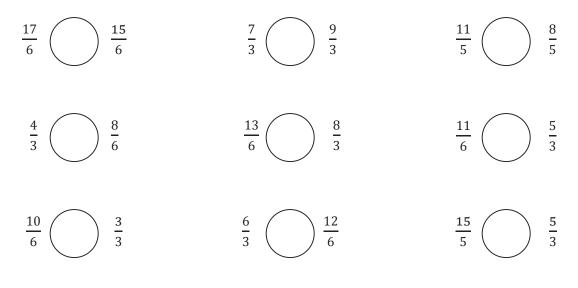
Name \_\_\_\_\_

Date \_\_\_\_\_

1. Divide each number line into the given fractional unit. Then, place the fractions. Write each whole as a fraction.



2. Use the number lines above to compare the following fractions using >, <, or =.





Lesson 19: Understand distance and position on the number line as strategies for comparing fractions. (Optional)

3. Use fractions from the number lines in Problem 1. Complete the sentence. Use words, pictures, or numbers to explain how you made that comparison.

\_\_\_\_\_ is greater than \_\_\_\_\_\_.

4. Use fractions from the number lines in Problem 1. Complete the sentence. Use words, pictures, or numbers to explain how you made that comparison.

\_\_\_\_\_ is *less than* \_\_\_\_\_\_.

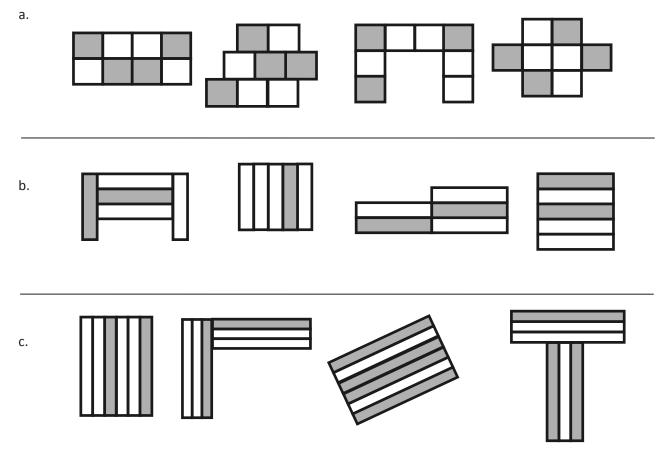
5. Use fractions from the number lines in Problem 1. Complete the sentence. Use words, pictures, or numbers to explain how you made that comparison.

\_\_\_\_\_ is equal to \_\_\_\_\_\_.

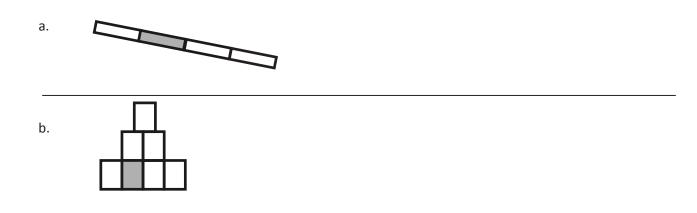


Name \_\_\_\_\_ Date \_\_\_\_\_

1. Label what fraction of each shape is shaded. Then, circle the fractions that are equal.



2. Label the shaded fraction. Draw 2 different representations of the same fractional amount.

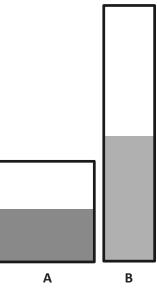


Lesson 20: Recognize and show that equivalent fractions have the same size, though not necessarily the same shape.

3. Ann has 6 small square pieces of paper. 2 squares are grey. Ann cuts the 2 grey squares in half with a diagonal line from one corner to the other.


- a. What shapes does she have now?
- b. How many of each shape does she have?
- c. Use all the shapes with no overlaps. Draw at least 2 different ways Ann's set of shapes might look. What fraction of the figure is grey?

4. Laura has 2 different beakers that hold exactly 1 liter. She pours  $\frac{1}{2}$  liter of blue liquid into Beaker A. She pours  $\frac{1}{2}$  liter of orange liquid into Beaker B. Susan says the amounts are not equal. Cristina says they are. Explain who you think is correct and why.

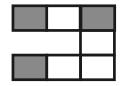




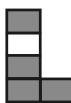
20: Recognize and show that equivalent fractions have the same size, though not necessarily the same shape. Name \_\_\_\_\_

Date \_\_\_\_\_

1. Label the shaded fraction. Draw 2 different representations of the same fractional amount.



2. These two shapes both show  $\frac{4}{5}$ .



- a. Are the shapes equivalent? Why or why not?
- b. Draw two different representations of  $\frac{4}{5}$  that are equivalent.

3. Diana ran a quarter mile straight down the street. Becky ran a quarter mile on a track. Who ran more? Explain your thinking.

Diana	
Becky	$\bigcirc$

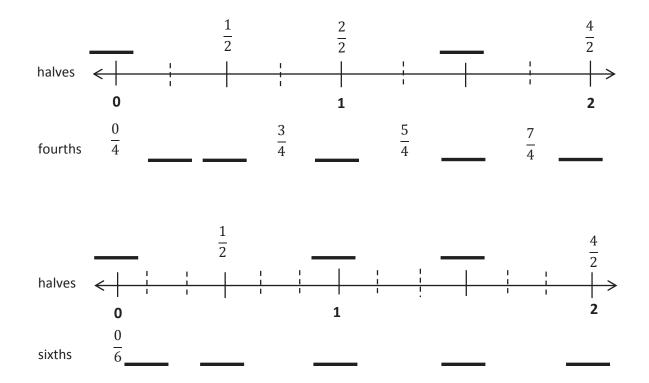


Lesson 20: Recognize and show that equivalent fractions have the same size, though not necessarily the same shape.

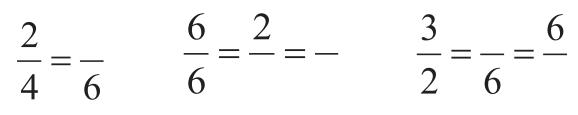
Name

Date \_\_\_\_\_

1. Use the fractional units on the left to count up on the number line. Label the missing fractions on the blanks.



- 2. Use the number lines above to:
  - Color fractions equal to 1 half blue.
  - Color fractions equal to 1 yellow.
  - Color fractions equal to 3 halves green.
  - Color fractions equal to 2 red.
- 3. Use the number lines above to make the number sentences true.





Lesson 21: Recognize and show that equivalent fractions refer to the same point on the number line.

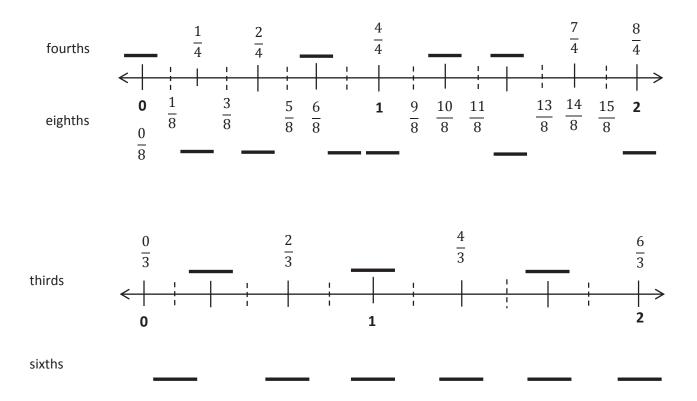
4. Jack and Jill use rain gauges the same size and shape to measure rain on the top of a hill. Jack uses a rain gauge marked in fourths of an inch. Jill's gauge measures rain in eighths of an inch. On Thursday, Jack's gauge measured  $\frac{2}{4}$  inches of rain. They both had the same amount of water, so what was the reading on Jill's gauge Thursday? Draw a number line to help explain your thinking.

5. Jack and Jill's baby brother Rosco also had a gauge the same size and shape on the same hill. He told Jack and Jill that there had been  $\frac{1}{2}$  inch of rain on Thursday. Is he right? Why or why not? Use words and a number line to explain your answer.



Name \_\_\_\_\_ Date \_\_\_\_\_

1. Use the fractional units on the left to count up on the number line. Label the missing fractions on the blanks.

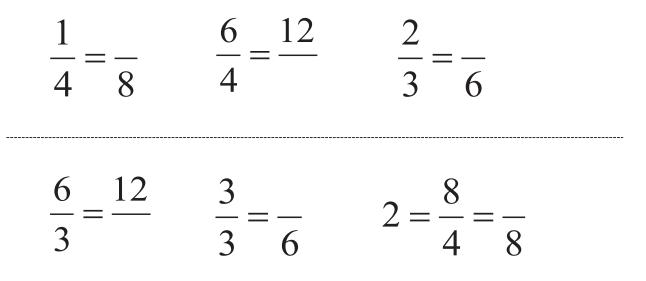


- 2. Use the number lines above to:
  - Color fractions equal to 1 purple.
  - Color fractions equal to 2 fourths yellow.
  - Color fractions equal to 2 blue.
  - Color fractions equal to 5 thirds green.
  - Write a pair of fractions that are equivalent.

=



3. Use the number lines on the previous page to make the number sentences true.



- 4. Mr. Fairfax ordered 3 large pizzas for a class party. Group A ate  $\frac{6}{6}$  of the first pizza, and Group B ate  $\frac{8}{6}$  of the remaining pizza. During the party, the class discussed which group ate more pizza.
  - a. Did Group A or B eat more pizza? Use words and pictures to explain your answer to the class.

b. Later, Group C ate all remaining slices of pizza. What fraction of the pizza did group C eat? Use words and pictures to explain your answer.

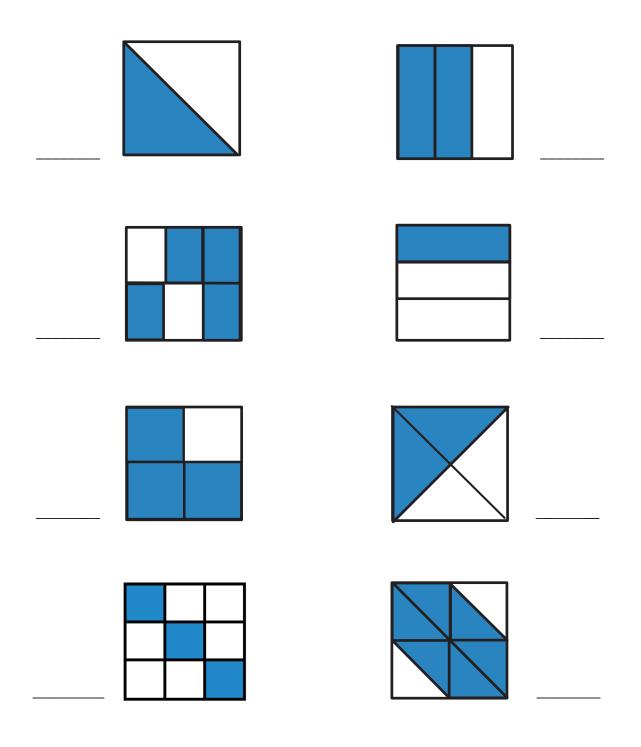


A STORY OF UNITS

Name \_\_\_\_\_

Date \_\_\_\_\_

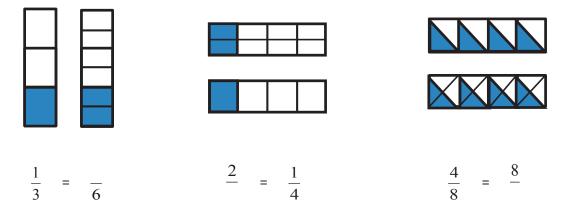
1. Write the shaded fraction of each figure on the blank. Then, draw a line to match the equivalent fractions.





Lesson 22: Generate simple equivalent fractions by using visual fraction models and the number line.

2. Write the missing parts of the fractions.



3. Why does it take 2 copies of  $\frac{1}{8}$  to show the same amount as 1 copy of  $\frac{1}{4}$ ? Explain your answer in words and pictures.

4. How many sixths does it take to make the same amount as  $\frac{1}{3}$ ? Explain your answer in words and pictures.

5. Why does it take 10 copies of 1 sixth to make the same amount as 5 copies of 1 third? Explain your answer in words and pictures.

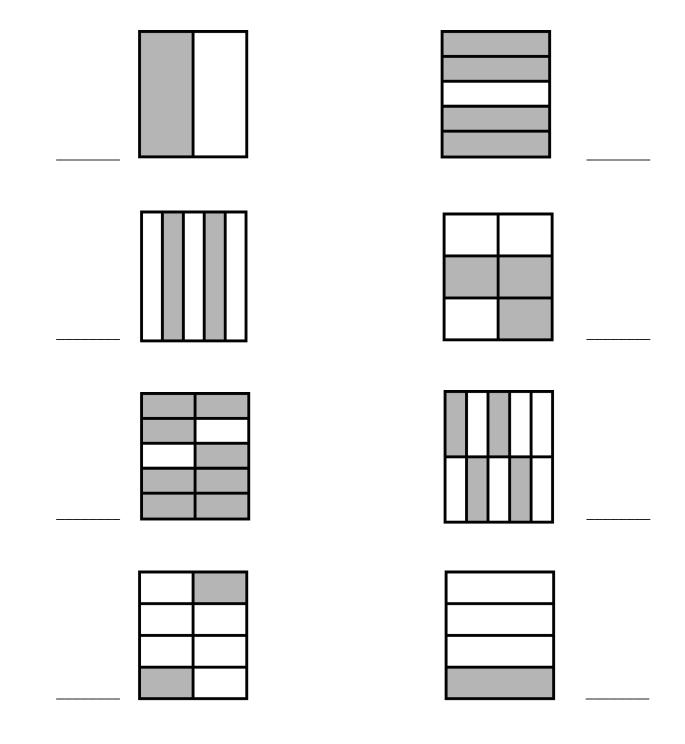


A STORY OF UNITS

Name \_\_\_\_\_

Date \_\_\_\_\_

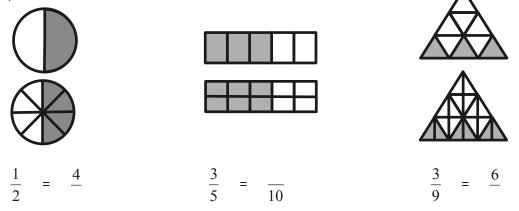
1. Write the shaded fraction of each figure on the blank. Then, draw a line to match the equivalent fractions.





Lesson 22: Generate simple equivalent fractions by using visual fraction models and the number line.

2. Complete the fractions to make true statements.

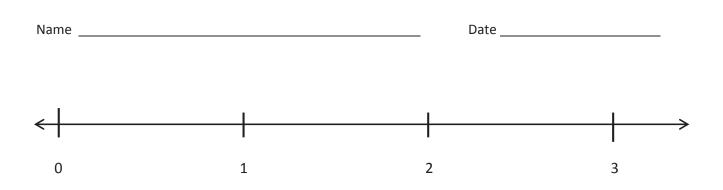


3. Why does it take 3 copies of  $\frac{1}{6}$  to show the same amount as 1 copy of  $\frac{1}{2}$ ? Explain your answer in words and pictures.

4. How many ninths does it take to make the same amount as  $\frac{1}{3}$ ? Explain your answer in words and pictures.

5. A pie was cut into 8 equal slices. If Ruben ate  $\frac{3}{4}$  of the pie, how many slices did he eat? Explain your answer using a number line and words.





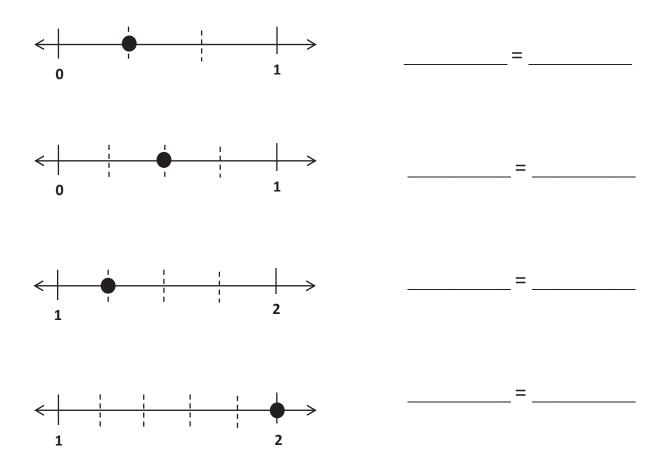
- 1. On the number line above, use a red colored pencil to divide each whole into fourths, and label each fraction above the line. Use a fraction strip to help you estimate, if necessary.
- 2. On the number line above, use a blue colored pencil to divide each whole into eighths, and label each fraction below the line. Refold your fraction strip from Problem 1 to help you estimate.
- 3. List the fractions that name the same place on the number line.

4. Using your number line to help, what red fraction and what blue fraction would be equal to  $\frac{7}{2}$ ? Draw the part of the number line below that would include these fractions, and label it.



A STORY OF UNITS

5. Write two different fractions for the dot on the number line. You may use halves, thirds, fourths, fifths, sixths, or eighths. Use fraction strips to help you, if necessary.



6. Cameron and Terrance plan to run in the city race on Saturday. Cameron has decided that he will divide his race into 3 equal parts and will stop to rest after running 2 of them. Terrance divides his race into 6 equal parts and will stop and rest after running 2 of them. Will the boys rest at the same spot in the race? Why or why not? Draw a number line to explain your answer.



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- 1. On the number line above, use a colored pencil to divide each whole into thirds and label each fraction above the line.
- 2. On the number line above, use a different colored pencil to divide each whole into sixths and label each fraction below the line.
- 3. Write the fractions that name the same place on the number line.

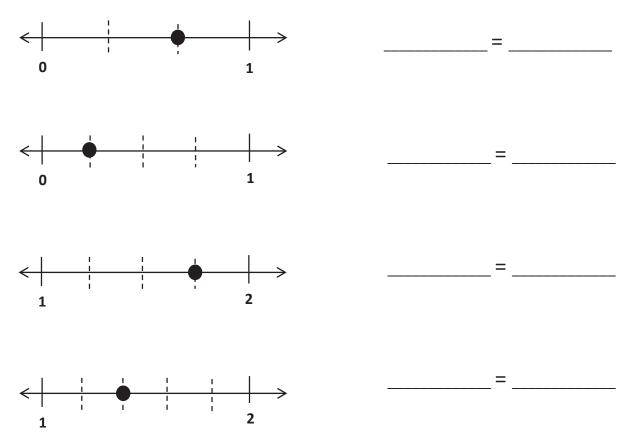
4. Using your number line to help, name the fraction equivalent to  $\frac{20}{6}$ . Name the fraction equivalent to  $\frac{12}{3}$ . Draw the part of the number line that would include these fractions below, and label it.

$$\frac{20}{6} = \frac{12}{3} = \frac{12}{6}$$



**A STORY OF UNITS** 

5. Write two different fraction names for the dot on the number line. You may use halves, thirds, fourths, fifths, sixths, eighths, or tenths.



6. Danielle and Mandy each ordered a large pizza for dinner. Danielle's pizza was cut into sixths, and Mandy's pizza was cut into twelfths. Danielle ate 2 sixths of her pizza. If Mandy wants to eat the same amount of pizza as Danielle, how many slices of pizza will she have to eat? Write the answer as a fraction. Draw a number line to explain your answer.

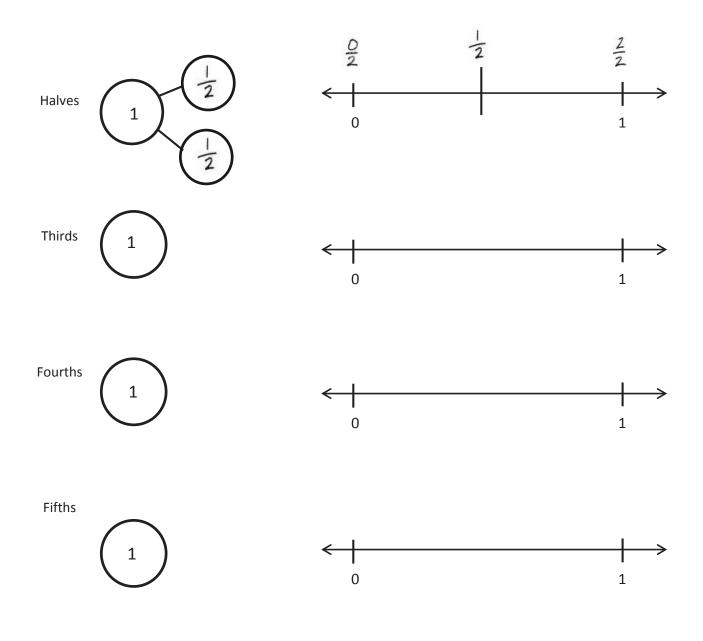


A STORY OF UNITS

Name \_\_\_\_

Date \_\_\_\_\_

1. Complete the number bond as indicated by the fractional unit. Partition the number line into the given fractional unit, and label the fractions. Rename 0 and 1 as fractions of the given unit. The first one is done for you.

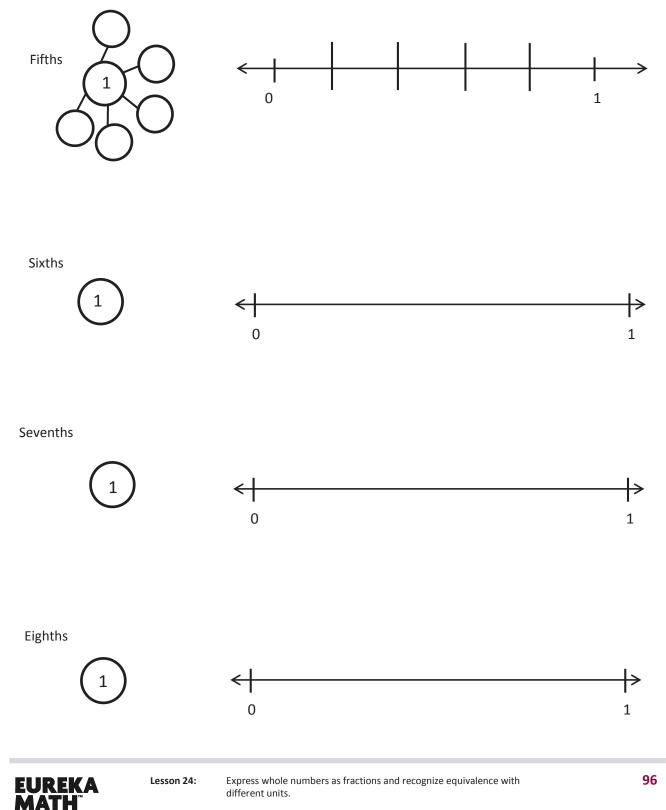




Name \_\_\_\_

Date \_\_\_\_\_

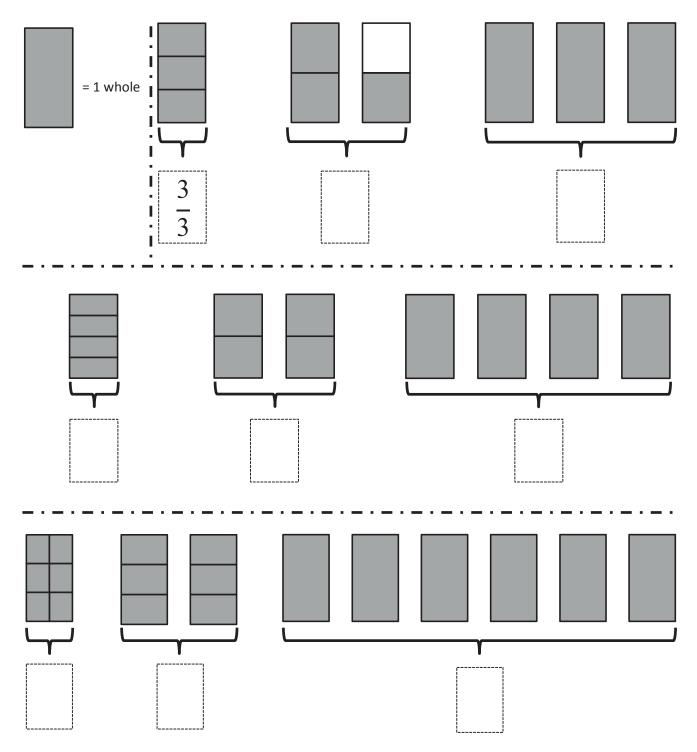
1. Complete the number bond as indicated by the fractional unit. Partition the number line into the given fractional unit, and label the fractions. Rename 0 and 1 as fractions of the given unit.



Name \_\_\_\_\_

Date \_\_\_\_\_

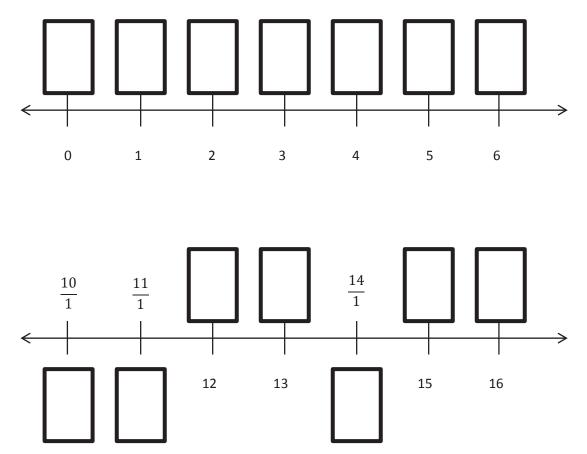
1. Label the following models as a fraction inside the dotted box. The first one has been done for you.





Lesson 25: Express whole number fractions on the number line when the unit interval is 1.

2. Fill in the missing whole numbers in the boxes below the number line. Rename the whole numbers as fractions in the boxes above the number line.



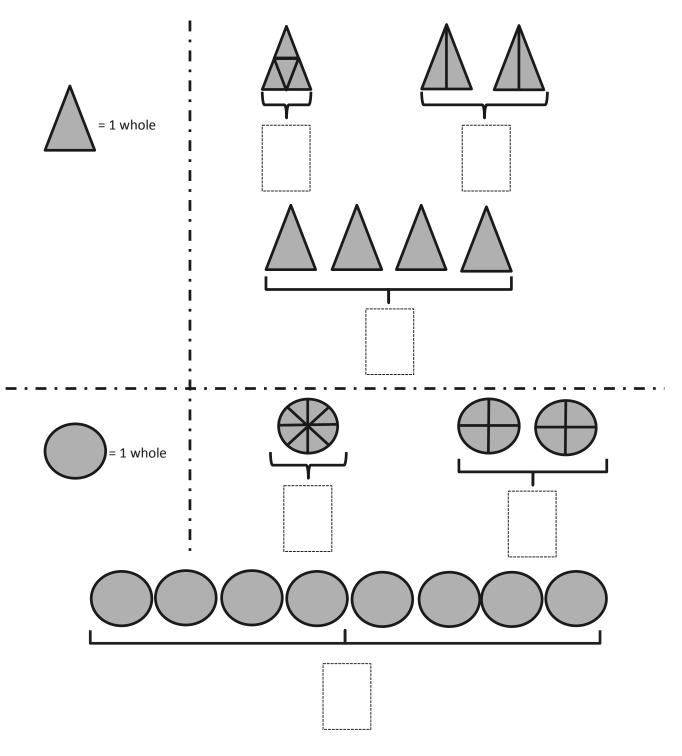
3. Explain the difference between these two fractions with words and pictures.

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



Name \_\_\_\_\_ Date \_\_\_\_

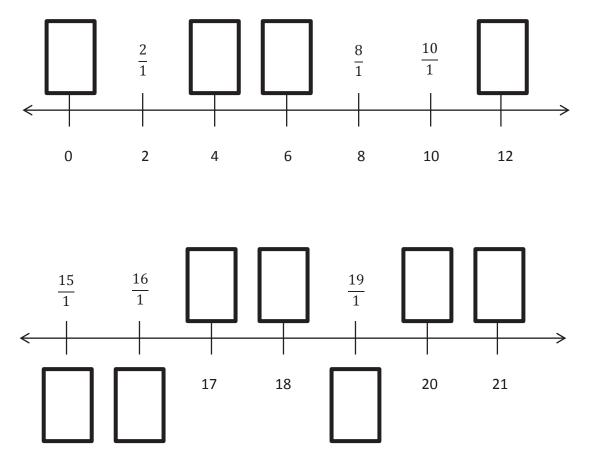
1. Label the following models as fractions inside the boxes.





Lesson 25:

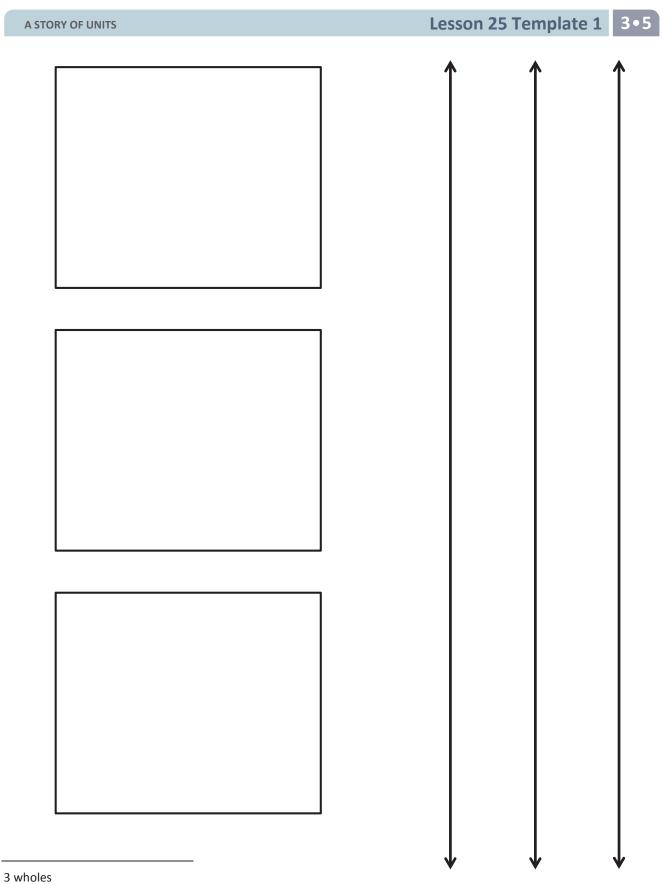
2. Fill in the missing whole numbers in the boxes below the number line. Rename the wholes as fractions in the boxes above the number line.

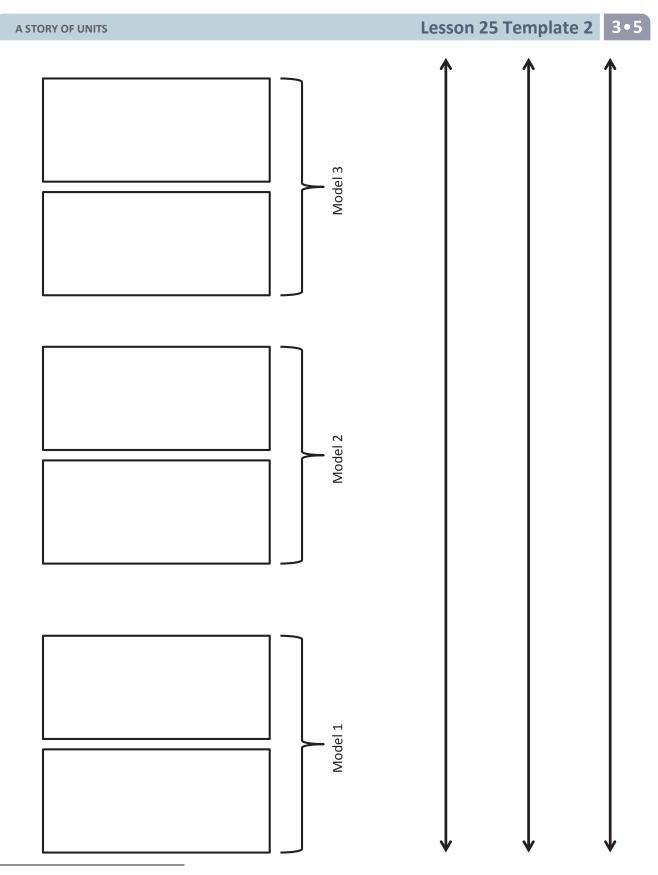


3. Explain the difference between these fractions with words and pictures.

$$\frac{5}{1}$$
  $\frac{5}{5}$ 







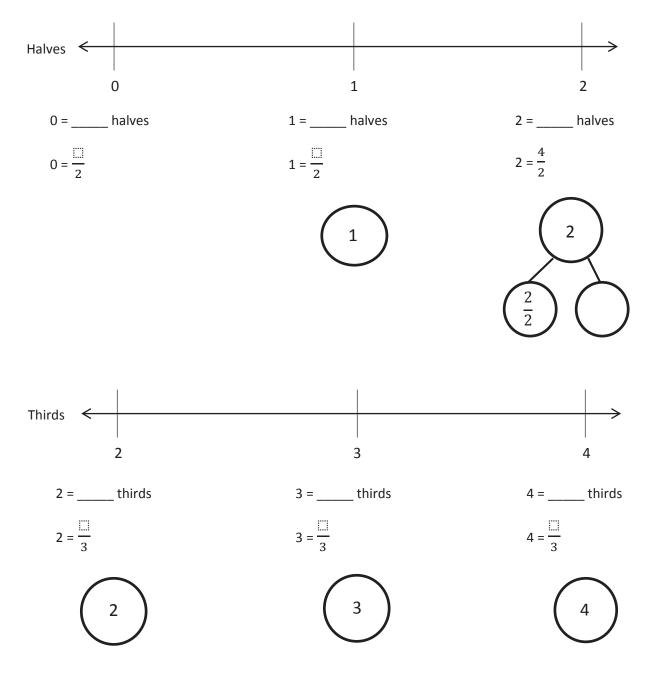
6 wholes

**A STORY OF UNITS** 

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Partition the number line to show the fractional units. Then, draw number bonds using copies of 1 whole for the circled whole numbers.





Lesson 26:

**26:** Decompose whole number fractions greater than 1 using whole number equivalence with various models.

- 2. Write the fractions that name the whole numbers for each fractional unit. The first one has been done.

- 3. Sammy uses  $\frac{1}{4}$  meter of wire each day to make things.
  - a. Draw a number line to represent 1 meter of wire. Partition the number line to represent how much Sammy uses each day. How many days does the wire last?
  - b. How many days will 3 meters of wire last?
- 4. Cindy feeds her dog  $\frac{1}{3}$  pound of food each day.
  - a. Draw a number line to represent 1 pound of food. Partition the number line to represent how much food she uses each day.
  - b. Draw another number line to represent 4 pounds of food. After 3 days, how many pounds of food has she given her dog?
  - c. After 6 days, how many pounds of food has she given her dog?

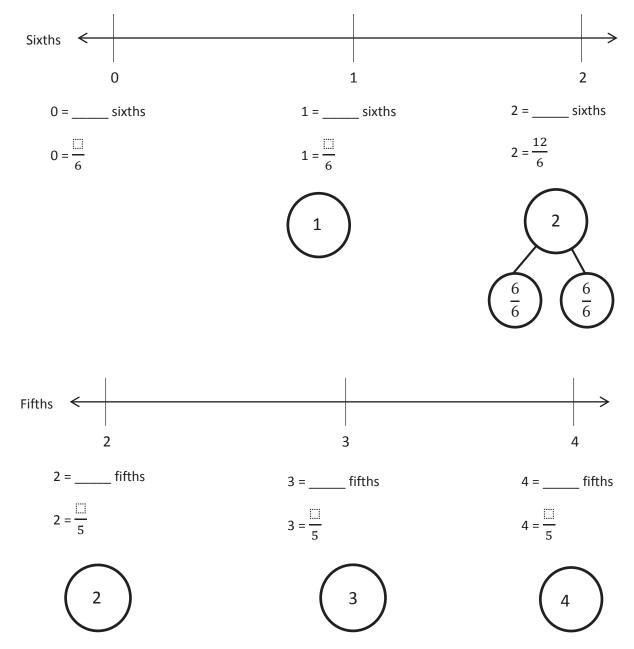


**A STORY OF UNITS** 

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Partition the number line to show the fractional units. Then, draw number bonds with copies of 1 whole for the circled whole numbers.

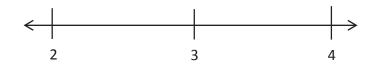




Lesson 26:

26: Decompose whole number fractions greater than 1 using whole number equivalence with various models.

2. Write the fractions that name the whole numbers for each fractional unit. The first one has been done for you.

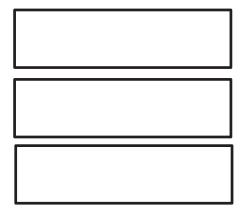


Thirds	$\frac{6}{3}$	$\frac{9}{3}$	$\frac{12}{3}$
Sevenths			
Eighths			
Tenths			

3. Rider dribbles the ball down  $\frac{1}{3}$  of the basketball court on the first day of practice. Each day after that, he dribbles  $\frac{1}{3}$  of the way more than he did the day before. Draw a number line to represent the court. Partition the number line to represent how far Rider dribbles on Day 1, Day 2, and Day 3 of practice. What fraction of the way does he dribble on Day 3?



2. 6 friends want to share 3 chocolate bars that are all the same size, which are represented by the 3 rectangles below. When the bars are unwrapped, the friends notice that the first chocolate bar is cut into 2 equal parts, the second is cut into 4 equal parts, and the third is cut into 6 equal parts. How can the 6 friends share the chocolate bars equally without breaking any of the pieces?





3. When the whole is the same, why does it take 6 copies of 1 eighth to equal 3 copies of 1 fourth? Draw a model to support your answer.

4. When the whole is the same, how many sixths does it take to equal 1 third? Draw a model to support your answer.

5. You have a magic wand that doubles the number of equal parts but keeps the whole the same size. Use your magic wand. In the space below, draw to show what happens to a rectangle that is partitioned in fourths after you tap it with your wand. Use words and numbers to explain what happened.



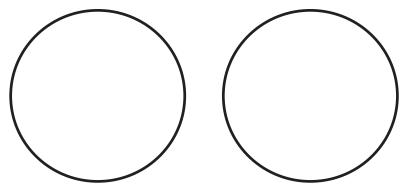
The whole stays the same.

What happened to the size of the equal parts when there were fewer equal parts?

The whole stays the same.

What happened to the size of the equal parts when there were more equal parts?

2. 8 students share 2 pizzas that are the same size, which are represented by the 2 circles below. They notice that the first pizza is cut into 4 equal slices, and the second is cut into 8 equal slices. How can the 8 students share the pizzas equally without cutting any of the pieces?





3. When the whole is the same, why does it take 4 copies of 1 tenth to equal 2 copies of 1 fifth? Draw a model to support your answer.

4. When the whole is the same, how many eighths does it take to equal 1 fourth? Draw a model to support your answer.

5. Mr. Pham cuts a cake into 8 equal slices. Then, he cuts every slice in half. How many of the smaller slices does he have? Use words and numbers to explain your answer.



Name								Date	2		
Shade the	e models to co	mpare t	he frac	tions.	Circle t	the larger	fractior	for eac	h proble	em.	
1.	2 fifths										
	2 thirds										
2.	2 tenths										
	2 eighths										
3.	3 fourths 3 eighths										
4.	4 eighths 4 sixths										
5.	3 thirds 3 sixths										

 After softball, Leslie and Kelly each buy a half-liter bottle of water. Leslie drinks 3 fourths of her water. Kelly drinks 3 fifths of her water. Who drinks the least amount of water? Draw a picture to support your answer.

7. Becky and Malory get matching piggy banks. Becky fills  $\frac{2}{3}$  of her piggy bank with pennies. Malory fills  $\frac{2}{4}$  of her piggy bank with pennies. Whose piggy bank has more pennies? Draw a picture to support your answer.

8. Heidi lines up her dolls in order from shortest to tallest. Doll A is  $\frac{2}{4}$  foot tall, Doll B is  $\frac{2}{6}$  foot tall, and Doll C is  $\frac{2}{3}$  foot tall. Compare the heights of the dolls to show how Heidi puts them in order. Draw a picture to support your answer.



Name								Dat	te			
Shade the	models to co	mpare tl	ne frac	tions.	Circle t	he larger	r fractio	on for ea	ch pro	blem.		
1.	1 half											]
	1 fifth											
2.												
Ζ.	2 sevenths											
	2 fourths											]
				I					I			
3.	4 fifths											]
	4 <b>.</b>		1	·				·			1	1
	4 ninths											
4.	5 sevenths											]
	E Louis			1						1		1
	5 tenths											
5.	4 sixths											]
	4 fourths											]
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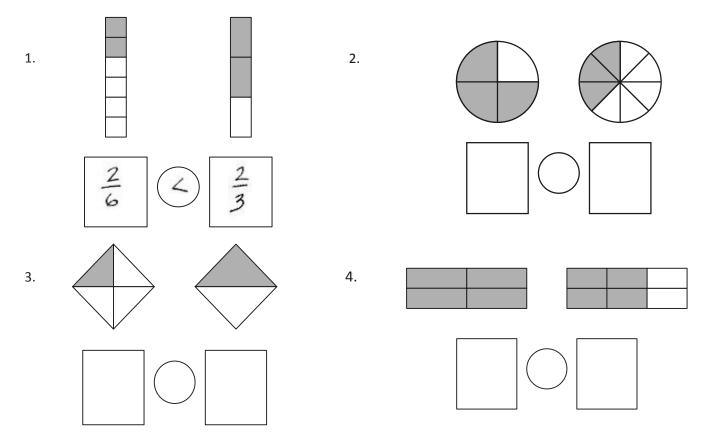
6. Saleem and Edwin use inch rulers to measure the lengths of their caterpillars. Saleem's caterpillar measures 3 fourths of an inch. Edwin's caterpillar measures 3 eighths of an inch. Whose caterpillar is longer? Draw a picture to support your answer.

7. Lily and Jasmine each bake the same-sized chocolate cake. Lily puts  $\frac{5}{10}$  of a cup of sugar into her cake. Jasmine puts  $\frac{5}{6}$  of a cup of sugar into her cake. Who uses less sugar? Draw a picture to support your answer.

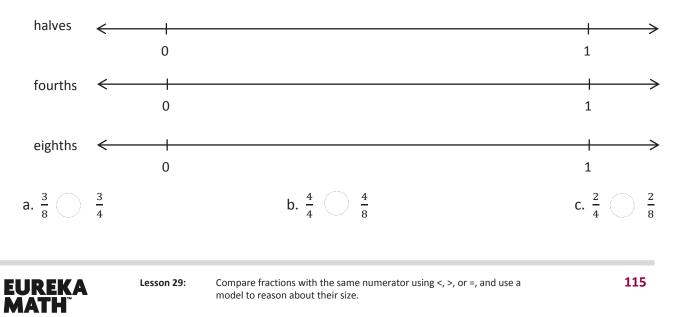


Name \_\_\_\_\_ Date \_\_\_\_\_

Label each shaded fraction. Use >, <, or = to compare. The first one has been done for you.



5. Partition each number line into the units labeled on the left. Then, use the number lines to compare the fractions.



©2015 Great Minds. eureka-math.org G3-M 5-SE-1.3.1-11.2015 Draw your own model to compare the following fractions.

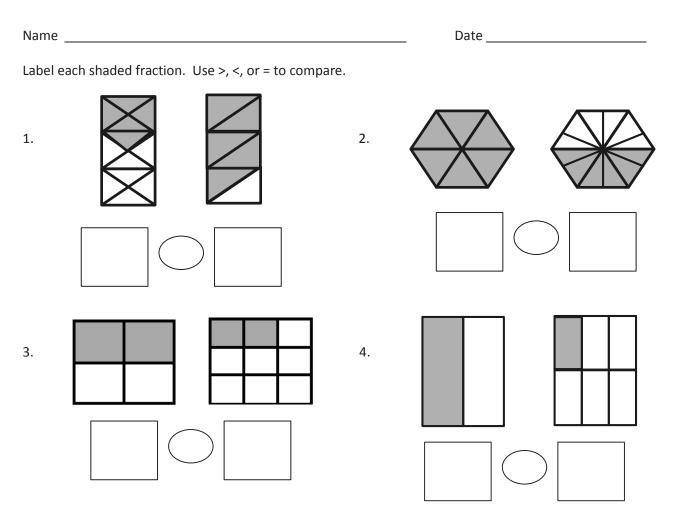
6.	3 10	<u>3</u> 5	7.	2 6	2 8

8. John ran 2 thirds of a kilometer after school. Nicholas ran 2 fifths of a kilometer after school. Who ran the shorter distance? Use the model below to support your answer. Be sure to label 1 whole as 1 kilometer.

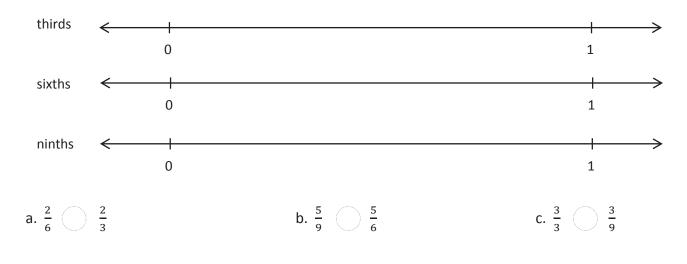
 		-	

9. Erica ate 2 ninths of a licorice stick. Robbie ate 2 fifths of an identical licorice stick. Who ate more? Use the model below to support your answer.





5. Partition each number line into the units labeled on the left. Then, use the number lines to compare the fractions.





Lesson 29: Compare fractions with the same numerator using <, >, or =, and use a model to reason about their size.

Draw your own models to compare the following fractions.



8. For an art project, Michello used  $\frac{3}{4}$  of a glue stick. Yamin used  $\frac{3}{6}$  of an identical glue stick. Who used more of the glue stick? Use the model below to support your answer. Be sure to label 1 whole as 1 glue stick.

9. After gym class, Jahsir drank 2 eighths of a bottle of water. Jade drank 2 fifths of an identical bottle of water. Who drank less water? Use the model below to support your answer.



Name \_\_\_\_\_

Date \_\_\_\_\_

Describe step by step the experience you had of partitioning a length into equal units by simply using a piece of notebook paper and a straight edge. Illustrate the process.

•	
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•	



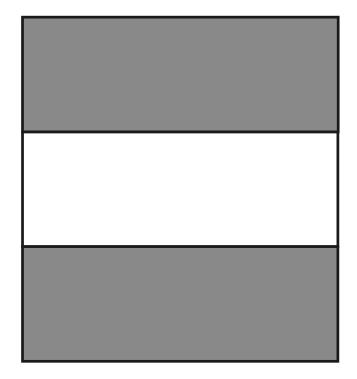
Lesson 30: Partition various wholes precisely into equal parts using a number method.

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lined paper



## Cut Out Packet

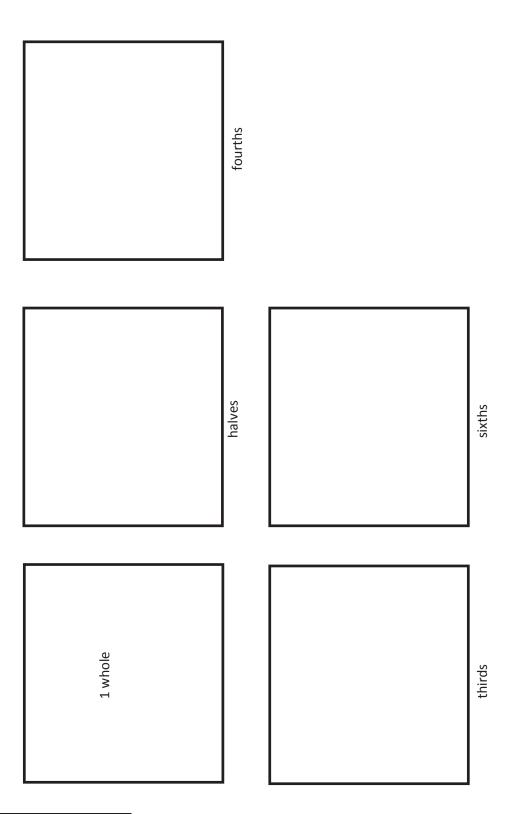


thirds



Lesson 20:

**0:** Recognize and show that equivalent fractions have the same size, though not necessarily the same shape.



fraction pieces



Lesson 24: Express whole numbers as fractions and recognize equivalence with different units.