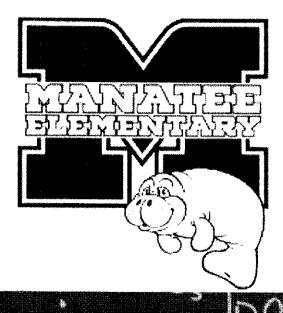
# Manatee Math Superstars

Grade 4

Spring Semester



## Adapted for **Math Superstar**: Week 1

#### A STORY OF UNITS

Naı	Name Date	
Sol	Solve using the RDW process.	
1.	<ol> <li>A pair of jeans costs \$89. A jean jacket costs twice as much. What is the total pairs of jeans?</li> </ol>	l cost of a jean jacket and 4
2.	<ol> <li>Sarah bought a shirt on sale for \$35. The original price of the shirt was 3 time bought a pair of shoes on sale for \$28. The original price of the shoes was 5 t Together, how much money did the shirt and shoes cost before they went on</li> </ol>	imes that amount.



Lesson 13:

Use multiplication, addition, or subtraction to solve multi-step word problems.

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3. All 3,000 seats in a theater are being replaced. So far, 5 sections of 136 seats and a sixth section containing 348 seats have been replaced. How many more seats do they still need to replace?

4. Computer Depot sold 762 reams of paper. Paper Palace sold 3 times as much paper as Computer Depot and 143 reams more than Office Supply Central. How many reams of paper were sold by all three stores combined?

EUREKA Lesson 13:

۷a	me Date
Jse	e the RDW process to solve the following problems.
l.	There are 19 identical socks. How many pairs of socks are there? Will there be any socks without a match? If so, how many?
2.	If it takes 8 inches of ribbon to make a bow, how many bows can be made from 3 feet of ribbon (1 foot = 12 inches)? Will any ribbon be left over? If so, how much?
3.	The library has 27 chairs and 5 tables. If the same number of chairs is placed at each table, how many chairs can be placed at each table? Will there be any extra chairs? If so, how many?



Lesson 14:

Solve division word problems with remainders.

4.	The baker has 42 kilograms of flour.	She uses 8 kilograms each day.	After how many days will she need
	to buy more flour?		

5. Caleb has 76 apples. He wants to bake as many pies as he can. If it takes 8 apples to make each pie, how many apples will he use? How many apples will not be used?

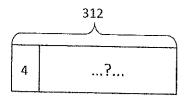
6. Forty-five people are going to the beach. Seven people can ride in each van. How many vans will be required to get everyone to the beach?



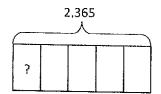
Lesson 14: Solve division word problems with remainders.

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1. Monique needs exactly 4 plates on each table for the banquet. If she has 312 plates, how many tables is she able to prepare?



2. 2,365 books were donated to an elementary school. If 5 classrooms shared the books equally, how many books did each class receive?



3. If 1,503 kilograms of rice was packed in sacks weighing 3 kilograms each, how many sacks were packed?

1.

	Date	
xplain your thinking or use division to an	ver the following.	
a. Is 2 a factor of 72?	b. Is 2 a factor of 73?	
c. Is 3 a factor of 72?	d. Is 2 a factor of 60?	
e. Is 6 a factor of 72?	f. Is 4 a factor of 60?	
g. Is 5 a factor of 72?	h. Is 8 a factor of 60?	
·		



Lesson 23:

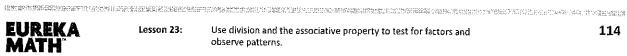
Use division and the associative property to test for factors and observe patterns.

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#### Adapted for Math Superstars Week 3

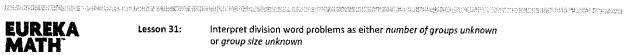
1.

ne	Date		
Explain your thinking or use division to a	o answer the following.		
a. Is 2 a factor of 84?	b. Is 2 a factor of 83?		
c. Is 3 a factor of 84?	d. Is 2 a factor of 92?		
e. Is 6 a factor of 84?	f. Is 4 a factor of 92?		
g. Is 5 a factor of 84?	h. Is 8 a factor of 92?		



Rita made 5 batches of cookies.	There was a total of 2,400 cookies.	If each batch contained the same
number of cookies, how many co	ookies were in 4 batches?	

Every day, Sarah drives the same distance to work and back home. If Sarah drove 1,005 miles in 5 days, how far did Sarah drive in 3 days?



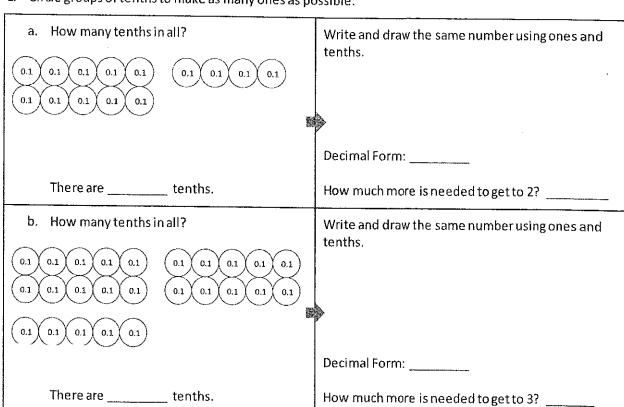
Lesson 31:

Interpret division word problems as either number of groups unknown or group size unknown

#### A STORY OF UNITS

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

1. Circle groups of tenths to make as many ones as possible.



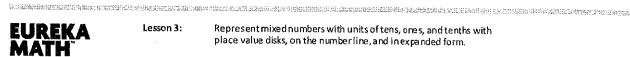
2. Draw disks to represent each number using tens, ones, and tenths. Then, show the expanded form of the number in fraction form and decimal form as shown. The first one has been completed for you.

a. 3 tens 4 ones 3 tenths



Fraction Expanded Form  $(3 \times 10) + (4 \times 1) + (3 \times \frac{1}{10}) = 34 \frac{3}{10}$ 

**Decimal Expanded Form**  $(3 \times 10) + (4 \times 1) + (3 \times 0.1) = 34.3$  b. 5 tens 3 ones 7 tenths

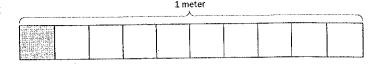


Lesson 3:

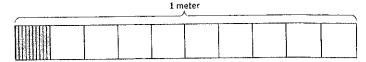
Represent mixed numbers with units of tens, ones, and tenths with place value disks, on the number line, and in expanded form.

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

1. a. What is the length of the shaded part of the meter stick in centimeters?



- b. What fraction of a meter is 1 centimeter?
- c. In fraction form, express the length of the shaded portion of the meter stick.



- d. In decimal form, express the length of the shaded portion of the meter stick.
- e. What fraction of a meter is 10 centimeters?
- 2. Fill in the blanks.

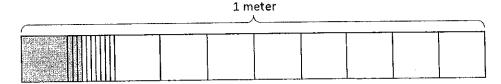
b. 
$$\frac{1}{10}$$
 m =  $\frac{1}{100}$  m

c. 
$$\frac{2}{10}$$
 m =  $\frac{20}{10}$  m

0.13

3. Use the model to add the shaded parts as shown. Write a number bond with the total written in decimal form and the parts written as fractions. The first one has been done for you.

a.



$$\frac{1}{10}$$
 m +  $\frac{3}{100}$  m =  $\frac{13}{100}$  m = 0.13 m



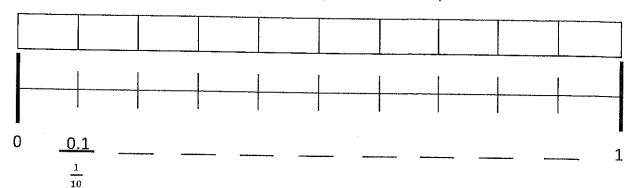
Lesson 4:

Use meters to model the decomposition of one whole into hundredths. Represent and count hundredths.

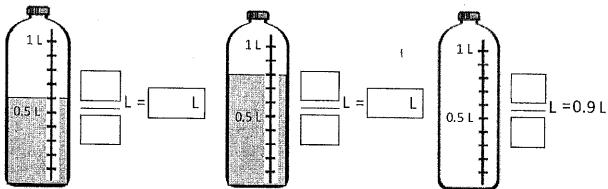
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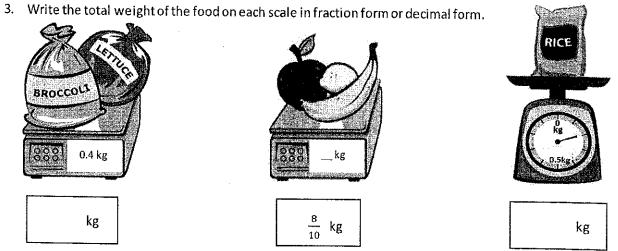
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	Date	

1. Shade the first 7 units of the tape diagram. Count by tenths to label the number line using a fraction and a decimal for each point. Circle the decimal that represents the shaded part.



2. Write the total amount of water in fraction form and decimal form. Shade the last bottle to show the correct amount.

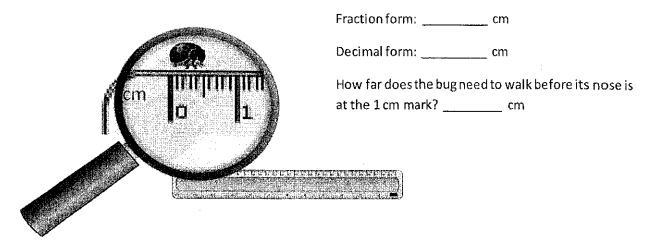




Lesson 1:

Use metric measurement to model the decomposition of one whole

4. Write the length of the bug in centimeters. (The drawing is not to scale.)



5. Fill in the blank to make the sentence true in both fraction form and decimal form.

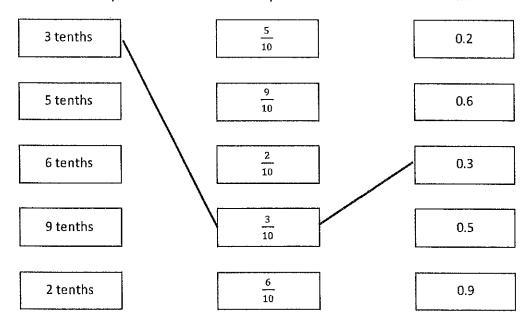
a. 
$$\frac{8}{10}$$
 cm + \_\_\_\_ cm = 1 cm

b. 
$$\frac{2}{10}$$
 cm + \_\_\_\_ cm = 1 cm

$$0.2 \text{ cm} + \_\_\_ \text{ cm} = 1.0 \text{ cm}$$

c. 
$$\frac{6}{10}$$
 cm + \_\_\_\_ cm = 1 cm

6. Match each amount expressed in unit form to its equivalent fraction and decimal forms.



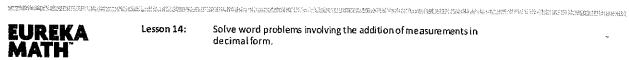
EUREKA MATH Lesson 1:

Use metric measurement to model the decomposition of one whole into tenths.

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#### Adapted for Math Superstars Week 6

Name	Date
Barrel A contains 2.7 liters of water. Barrel B contains the two barrels contain?	3.09 liters of water. Together, how much water d
Alissa ran a distance of 15.8 kilometers one week and she run in the two weeks?	17.34 kilometers the following week. How far did



Lesson 14:

Solve word problems involving the addition of measurements in decimal form.

Name	Date
Use the following directions to draw a figure in the box to the right.	
a. Draw two points: A and B.	
b. Use a straightedge to draw $\overrightarrow{AB}$ .	
c. Draw a new point that is not on $\overrightarrow{AB}$ . Label it $C$ .	
d. Draw $\overline{AC}$ .	
e. Draw a point not on $\overrightarrow{AB}$ or $\overrightarrow{AC}$ . Call it $D$ .	
f. Construct $\overrightarrow{CD}$ .	
g. Use the points you've already labeled to name one	
angle	
L	
Use the following directions to draw a figure in the box to the right.	
a. Draw two points: $A$ and $B$ .	
b. Use a straightedge to draw $\overline{AB}$ .	
c. Draw a new point that is not on $\overline{AB}$ . Label it $C$ .	
d. Draw $\overrightarrow{BC}$ .	
e. Draw a new point that is not on $\overrightarrow{AB}$ or $\overrightarrow{BC}$ .	
Label it D.	
f. Construct $\overrightarrow{AD}$ .	
g. Identify $\angle DAB$ by drawing an arc to indicate the	
position of the angle.	
h. Identify another angle by referencing points that	
you have already drawn.	

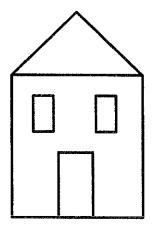


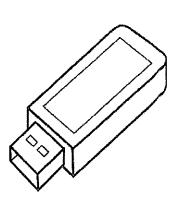
Lesson 1:

Identify and draw points, lines, line segments, rays, and angles. Recognize them in various contexts and familiar figures.

是是是一个人,我们就是一个人,我们是一个人的,我们就是这种,我们就是我们的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人的人 第一个人们就是一个人们就是一个人的人,我们就是一个人的人们就是一个人的人,我们就是一个人的人们就是一个人的人们的人们,我们就是一个人们的人们的人们就是一个人们的

- 3. a. Observe the familiar figures below. Label some points on each figure.
  - b. Use those points to label and name representations of each of the following in the table below: ray, line, line segment, and angle. Extend segments to show lines and rays.





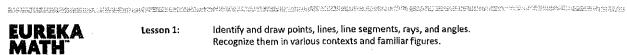


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Ray			
Line			
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Line segment			
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Anala	·		
Angle			
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Extension: Draw a familiar figure. Label it with points, and then identify rays, lines, line segments, and angles as applicable.

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Name			Date	
1.		e the following directions to draw a figure in the x to the right.		
	a.	Draw two points: $W$ and $X$ .		
	b.	Use a straightedge to draw $\overrightarrow{WX}$ .		
	c. d.	Draw a new point that is not on $\overrightarrow{WX}$ . Label it $Y$ . Draw $\overrightarrow{WY}$ .		
	€.	Draw a point not on $\overrightarrow{WX}$ or $\overrightarrow{WY}$ . Call it $Z$ .		
	f.	Construct $\overrightarrow{YZ}$ .		
	g.	Use the points you've already labeled to name		
		one angle.		
2.		e the following directions to draw a figure in the c to the right.		
	a.	Draw two points: $W$ and $X$ .		
	b.	Use a straightedge to draw $\overline{WX}$ .		
	c.	Draw a new point that is not on $\overline{WX}$ . Label it $Y$ .		
	d.	Draw $\overrightarrow{WY}$ .		
	e.	Draw a new point that is not on $\overrightarrow{WY}$ or on the line		
		containing $\overline{WX}$ . Label it $Z$ .		
	f.	Construct $\overrightarrow{WZ}$ .		
	g.	Identify $\angle ZWX$ by drawing an arc to indicate the		
		position of the angle.		
	h.	Identify another angle by referencing points that		
		you have aiready drawn		



Lesson 1:

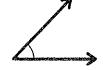
Identify and draw points, lines, line segments, rays, and angles. Recognize them in various contexts and familiar figures.

Name	Dato	
INGILIC	Date	

1. Use the right angle template that you made in class to determine if each of the following angles is greater than, less than, or equal to a right angle. Label each as *greater than*, less than, or equal to, and then connect each angle to the correct label of acute, right, or obtuse.

The first one has been completed for you.

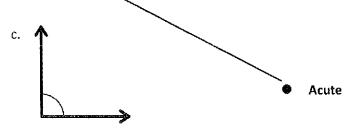
a.



b.



Less than



d.



e.



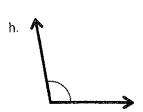
Right



g.



Obtuse •



i.

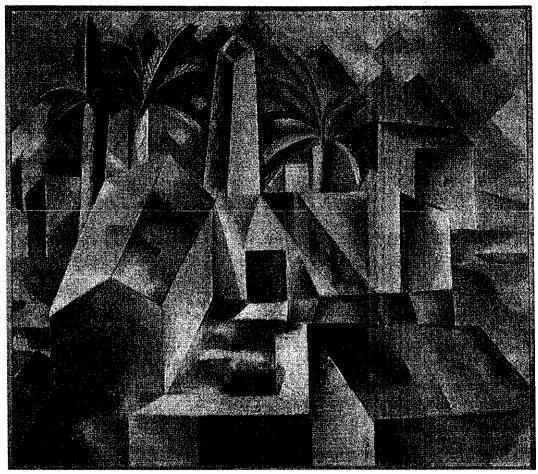


j.



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2. Use your right angle template to identify acute, obtuse, and right angles within Picasso's painting Factory, Horta de Ebbo. Trace at least two of each, label with points, and then name them in the table below the painting.



© 2013 Estate of Pablo Picasso / Artists Rights Society (ARS), New York Photo: Erich Lessing / Art Resource, NY.

and the second section of the second			-
			;
Acute angle	-	,	
AUDIO CONTRACTOR TO STATE			
CALLED TO SHEET LEVEL IN			
Obtuse angle			
Section of the section of			
A Secretary and the second		L	
Right angle			
Right angle			

Name	Date	
	Date	

Use the right angle template that you made in class to determine if each of the following angles is greater than, less than, or equal to a right angle. Label each as greater than, less than, or equal to, and then connect each angle to the correct label of acute, right, or obtuse. The first one has been completed for you.

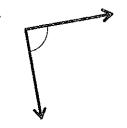
a.



Less than



b.



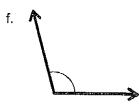
d.



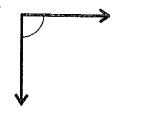
e.



Right



g.



Obtuse 6

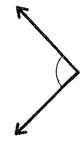


í.



j.

h.



Construct each of the following using a straightedge and the right angle template that you created. Explain the characteristics of each by comparing the angle to a right angle. Use the words *greater than*, *less than*, or *equal to* in your explanations.

a. Acute angle

b. Right angle

c. Obtuse angle

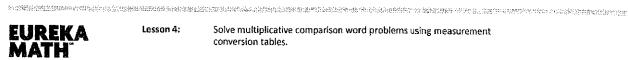


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### Adapted for Math Superstars Week 10

#### A STORY OF UNITS

Na	me	Date	
Us	e RDW to solve the following problems.		
1.	Sandy took the train to New York City. The trip to long. How many minutes did Jackie's trip take?	ook 3 hours. Jackie took the bus, which took twice	e as
2.	Coleton's puppy weighed 3 pounds 8 ounces at bi	wirth. The vet weighed the numby again at 6 month	ar and
	the puppy weighed 7 pounds. How many ounces	s did the puppy gain?	is, and
3.	Jessie bought a 2-liter bottle of juice. Her sister d the bottle?	drank 650 milliliters. How many milliliters were let	ft in

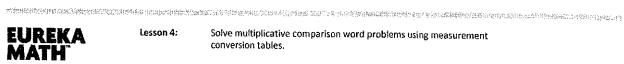


Lesson 4:

Solve multiplicative comparison word problems using measurement conversion tables.

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4.	Hudson has a chain that is 1 yard in length. Myah's chain is 3 times as long. How many feet of chain d they have in all?
5.	A box weighs 8 ounces. A shipment of boxes weighs 7 pounds. How many boxes are in the shipment?
6.	Tracy's rain barrel has a canacity of 27 quarts of water. Both's rain barrel has a canacity of 27 quarts of water.
U.	Tracy's rain barrel has a capacity of 27 quarts of water. Beth's rain barrel has a capacity of twice the amount of water as Tracy's rain barrel. Trevor's rain barrel can hold 9 quarts of water less than Beth's barrel.
	a. What is the capacity of Trevor's rain barrel?
	<ul> <li>If Tracy, Beth, and Trevor's rain barrels were filled to capacity, and they poured all of the water int a 30-gallon bucket, would there be enough room? Explain.</li> </ul>



Lesson 4:

Solve multiplicative comparison word problems using measurement conversion tables.