Name	Period
Unit 3 Rate and Perce	ent Week of 11/26/18
Learning Targets from 6 th Grade Common Core S Lesson 1 The Burj Khalifa:	State Standards: for 1" is useful for solving different types of
 Lesson 2 Anchoring Units of Measurement: When I read or hear a unit of measureme weight, or volume. L can name common objects that are about the second second	ent, I know whether it is used to measure length, ut as long as 1 inch, foot, vard, mile, millimeter,

centimeter, meter, or kilometer.

I can name common objects that weigh about 1 ounce, pound, ton, gram, or kilogram, or that hold about 1 cup, quart, gallon, milliliter, or liter.

Lesson 3 Measuring with Different Sized Units:

When I know a measurement in one unit, I can decide whether it takes more or less of a different unit

Lesson 4 Converting Units

I know that when we measure things in two different units, the pairs of measurements are equivalent ratios.

I can convert measurements from one unit to another, using double number lines, tables, or by thinking about "how much for 1."

This Week's Vocabulary Words:

convert	equivalent ratios	unit	measurement	length	area	volume
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Homework is due the following day.

Day	Class work—All in	Homework—	Complete	Correct
Monday	Lesson 1 The Burj Khalifa	Pages 1 & 2 & 3: Lesson 1 Practice Problems—Choose TWO of the first 4 problems, then do 5, 6, 7	/4	/8
Tuesday	Lesson 2 Anchoring Units of Measurement	Pages 4 & 5: Lesson 2 Practice Problems—Do 1, 2 & 3, then choose TWO from 4, 5, & 6	/4	/22
Wednesday	Lesson 3 Measuring with Different Sized Units	Pages 6 & 7: Lesson 3 Practice Problems—All	/4	/18
Thursday	Lesson 4 Converting Units	Pages 8 & 9: Lesson 4 Practice Problems—1, 2, 3, 5, 6, 7- -# 4 is the Challenge	/4	/20
Friday	Lesson 4 Cool Down and Catch up.	None		1
		Total	/16	
		Quality	/4	
		Total	/20	

Homework Quality—Remember, if you don't know how to complete a problem you should read it again and write down the information you have, draw a picture, or write a question you have, please do not leave blank or write "?" or idk. You can also come in and get help before school⁽²⁾!

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Work is *thorough* with *detailed* explanations (2 pts)

Homework is corrected (with additions needed) in a different color pen/pencil (2 pts)

NAME	DATE	PERIOD	
Unit 3, Lesson 1: The Bu	rj Khalifa (Choose TWO fro	m 1-4
1. An elevator travels 310 feet in 10 secor seconds? Explain your reasoning.	nds. At that speed, ho	w far can this elevator trave Feet Seconds	l in 12
			1
2. Han earns \$33.00 for babysitting 4 hou hours? Explain your reasoning.	urs. At this rate, how i	much will he earn if he baby Hour 5	sits for 7
			1
3. The cost of 5 cans of dog food is \$4.35 your reasoning.	. At this price, how m	uch do 11 cans of dog food c	cost? Explain
			1
4. A restaurant has 26 tables in its dining tables. At this rate, how long will it take Explain or show your reasoning.	room. It takes the wa the waitstaff to clea	aitstaff 10 minutes to clear a r and set all the tables in the <u>Tables</u> <u>Minutes</u>	nd set 4 dining room?
			1
5. A sandwich shop serves 4 ounces of m	eat and 3 ounces of o	cheese on each sandwich. Af	ter making
a. How many combined ounces of m	art Part leat and cheese are u	sed on each sandwich?	

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- b. How many sandwiches were made in the hour?
- c. How many ounces of meat were used?
- d. How many ounces of cheese were used?
- (from Unit 2, Lesson 16)

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- 6. Here is a flower made up of yellow hexagons, red trapezoids, and green triangles.
 - a. How many copies of this flower pattern could you build if you had 30 yellow hexagons, 50 red trapezoids, and 60 green triangles?
 - b. Of which shape would you have the most left over?



(nextpage)

possible bonus

2

(from Unit 2, Lesson 14)

7. Match each quantity in the first list with an appropriate unit of measurement from the second list.

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	A. the perimeter of a baseball field		1. centimeters (cm)	
	B. the area of a bed sheet		2. cubic feet (cu ft)	
	C. the volume of a refrigerator		3. cubic kilometers (cu km)	
	D. the surface area of a tissue box		4. meters (m)	
	E. the length of a spaghetti noodle		5. square feet (sq ft)	
	F. the volume of a large lake		6. square inches (sq in)	4
	G. the surface area of the the moon		7. square kilometers (sq km)	

15 2 possible bonus

(from Unit 1, Lesson 16)



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Unit 3, Lesson 2: Anchoring Units of Measurement

1. Select the unit from the list that you would use to measure each object.

1.	The length of a pencil	a) centimeters
2.	The weight or mass of a pencil	b) cups
3.	The volume of a pencil	c) feet
4.	The weight or mass of a	d) gallons
	hippopotamus	e) grams
5.	The length of a hippopotamus	f) inches
6.	The length of a fingernail	g) kilograms
	clipping	h) kilometers
7.	The weight or mass of a	i) liters
	fingernail clipping	j) meters
8.	The volume of a sink	k) miles
9.	The volume of a bowl	l) milliliters
10.	The length of a chalkboard or	m) millimeters
	whiteboard	n) ounces
11.	The weight or mass of a	o) pounds
	chalkboard or whiteboard	p) quarts
12.	The length of the border	a) tons
	between the United States and	r) vards
	Lanada	ij yarus

2. When this pet hamster is placed on a digital scale, the scale reads 1.5.



What could be the units?



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Unit 3, Lesson 3: Measuring with Di#erent-Sized Units

- 1. Decide if each is a measurement of length, area, volume, or weight (or mass).
 - a. How many centimeters across a handprint
 - b. How many square inches of paper needed to wrap a box
 - c. How many gallons of water in a =sh tank
 - d. How many pounds in a bag of potatoes
 - e. How many feet across a swimming pool
 - f. How many ounces in a bag of grapes
 - g. How many liters in a punch bowl
 - h. How many square feet of grass in a lawn

(from Unit 3, Lesson 2)

2. Clare says, "This classroom is 11 meters long. A meter is longer than a yard, so if I measure the length of this classroom in yards, I will get less than 11 yards." Do you agree with Clare? Explain your reasoning.

- 3. Tyler's height is 57 inches. What could be his height in centimeters? Explain your reasoning.
 - A. 22.4 B. 57 C. 144.8
 - D. 3,551

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4. A large soup pot holds 20 quarts. What could be its volume in liters?

A. 7.57 B. 19 C. 21 D. 75.7

5. Clare wants to mail a package that weighs $4\frac{1}{2}$ pounds. What could this weight be in kilograms?

- A. 2.04
- B. 4.5
- C. 9.92
- D. 4,500
- 6. Noah bought 15 baseball cards for \$9.00. Assuming each baseball card costs the same amount, answer the following questions.
 - a. At this rate, how much will 30 baseball cards cost? Explain your reasoning.
 - b. At this rate, how much will 12 baseball cards cost? Explain your reasoning.
 - c. Do you think this information would be better represented using a table or a double number line? Explain your reasoning.

(from Unit 2, Lesson 13)

- 7. Jada traveled 135 miles in 3 hours. Andre traveled 228 miles in 6 hours. Both Jada and Andre traveled at a constant speed.
 - a. How far did Jada travel in 1 hour?
 - b. How far did Andre travel in 1 hour?
 - c. Who traveled faster? Explain or show your reasoning.

(from Unit 2, Lesson 9)



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Unit 3, Lesson 4: Converting Units

1. Priya's family exchanged 250 dollars for 4,250 pesos. Priya bought a sweater for 510 pesos. How many dollars did the sweater cost?

pesos	dollars
4,250	250
	25
	1
	3
510	

2. There are 3,785 milliliters in 1 gallon, and there are 4 quarts in 1 gallon. For each question, explain or show your reasoning.

a. How many milliliters are in 3 gallons?

b. How many milliliters are in 1 quart?

- 3. Lin knows that there are 4 quarts in a gallon. She wants to convert 6 quarts to gallons, but cannot decide if she should multiply 6 by 4 or divide 6 by 4 to @nd her answer. What should she do? Explain or show your reasoning. If you get stuck, consider drawing a double number line or using a table.
- 4. Tyler has a baseball bat that weighs 28 ounces. Find this weight in kilograms and in grams. (Note: 1 kilogram \approx 35 ounces) Challenge

5. Identify whether each unit measures length, volume, or weight (or mass). Nex + page

'4

i. Kilogram

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f. Gram	j. Teaspoon
g. Pint	k. Milliliter

e. Liter

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d. Centimeter h. Yard

(from Unit 3, Lesson 1)

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a. Mile

b. Cup

c. Pound

6. A recipe for trail mix uses 7 ounces of almonds with 5 ounces of raisins. (Almonds and raisins are the only ingredients.) How many ounces of almonds would be in a one-pound bag of this trail mix? Explain or show your reasoning.

(from Unit 2, Lesson 11)

7. An ant can travel at a constant speed of 980 inches every 5 minutes.

Fill immove as needed

- a. How far does the ant travel in 1 minute?
- b. At this rate, how far can the ant travel in 7 minutes?

(from Unit 2, Lesson 9)