| Name   |   | Period  | Period         |         |  |  |
|--|---|---|----------------|---------|--|--|
|  | Unit 3 Rate an  | d Percent Week of 12/2/19   |                |         |  |  |
| Lesson 1 Th  | gets from 6 <sup>th</sup> Grade Commo<br>ne Burj Khalifa:                   |   |                |         |  |  |
| proble   | ms.   | v much for 1" is useful for solving differ  | rent types of  |         |  |  |
| ☐ When   | nchoring Units of Measurer<br>I read or hear a unit of mea<br>t, or volume. | asurement, I know whether it is used to   | o measure le   | ength,  |  |  |
| centim   | neter, meter, or kilometer.   | are about as long as 1 inch, foot, yard   |                |         |  |  |
| that ho  | old about 1 cup, quart, gallo   |   | m, or kilogra  | m, or   |  |  |
| 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. |   |   |                |         |  |  |
| ☐ I know   |   | ngs in two different units, the pairs of r  | measuremer     | nts     |  |  |
| ☐ I can d  | uivalent ratios.<br>convert measurements from<br>hinking about "how much fo | n one unit to another, using double nur   | mber lines, ta | ables,  |  |  |
| This Week's Vocabulary Words: convert equivalent ratios unit measurement length area volume  |   |   |                |         |  |  |
| Homework is  | due the following day.  |   |                |         |  |  |
| Day  | Class work—All in<br>Spiral using iPad ☺                                    | Homework  | Complete       | Correct |  |  |
| Monday   | No School Grading Day   |   |                |         |  |  |
| Tuesday  | Lesson 1 The Burj<br>Khalifa  | Pages 1 & 2: Lesson 1 Practice<br>Problems—Choose TWO of the<br>first 4 problems, then do 5, 6, 7 | /5             | 1\$5    |  |  |
| Wednesday  | Lesson 2 Anchoring<br>Units of Measurement                                  | Pages 3 & 4: Lesson 2 Practice<br>Problems—Do 1, 2 & 3, then<br>choose TWO from 4, 5, & 6         | /5             | /22     |  |  |
| Thursday   | Lesson 3 Measuring<br>with Different Sized<br>Units                         | Pages 5 & 6: Lesson 3 Practice Problems—All   | /5             | /18     |  |  |
| Friday   | Lesson 4 Converting<br>Units  | None  |                |         |  |  |
| -  |   | Total   | /15            |         |  |  |
|  |   | Quality   | /4             |         |  |  |
|  |   | Total   | /19            |         |  |  |
|  |   | u don't know how to complete a pro  | oblem you      | to a    |  |  |

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<sup>©</sup>!

|        | Work is <i>thorough</i> with <i>detailed</i> explanations (2 pts)     |            |         |
|--------|---|------------|---------|
| $\Box$ | Homework is corrected (with additions needed) in a different color pe | n/pencil ( | (2 pts) |

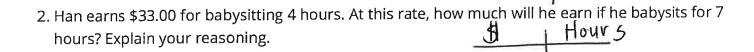
NAME

DATE

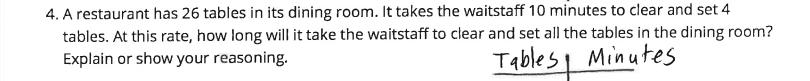
**PERIOD** 

## Unit 3, Lesson 1: The Burj Khalifa Choose TWO from 1-4

1. An elevator travels 310 feet in 10 seconds. At that speed, how far can this elevator travel in 12 Feet 1 Seconds seconds? Explain your reasoning.



3. The cost of 5 cans of dog food is \$4.35. At this price, how much do 11 cans of dog food cost? Explain your reasoning.



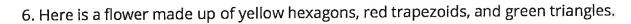
- 5. A sandwich shop serves 4 ounces of meat and 3 ounces of cheese on each sandwich. After making sandwiches for an hour, the shop owner has used 91 combined ounces of meat and cheese.
  - a. How many combined ounces of meat and cheese are used on each sandwich?

DATE

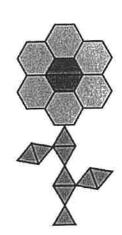
**PERIOD** 

- 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)



- 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?



(from Unit 2, Lesson 14)

12

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

G. the surface area of the the moon

7. square kilometers (sq km)

2 possible bonus

## 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
  - 2. The weight or mass of a pencil
  - 3. The volume of a pencil
  - 4. The weight or mass of a hippopotamus
  - 5. The length of a hippopotamus
  - 6. The length of a fingernail clipping
  - 7. The weight or mass of a fingernail clipping
  - 8. The volume of a sink
  - 9. The volume of a bowl
  - 10. The length of a chalkboard or whiteboard
  - 11. The weight or mass of a chalkboard or whiteboard
  - 12. The length of the border between the United States and Canada

- a) centimeters
- b) cups
- c) feet
- d) gallons
- e) grams
- f) inches
- g) kilograms
- h) kilometers
- i) liters
- j) meters
- k) miles
- l) milliliters
- m) millimeters
- n) ounces
- o) pounds
- p) quarts
- q) tons
- r) yards

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



What could be the units?



2.

NAME

DATE

PERIOD

- 3. Circle the larger unit of measure. Then, determine if the unit measures distance, volume, or weight (mass).
  - 1. meter or kilometer
  - 2. yard or foot
  - 3. cup or quart
  - 4. pound or ounce
  - 5. liter or milliliter
  - 6. gram or kilogram

Oart

Part

Jhale

4. Elena mixes 5 cups of apple juice with 2 cups of sparkling water to make sparkling apple juice. For a party, she wants to make 35 cups of sparkling apple juice. How much of each ingredient should Elena use? Explain or show your reasoning. (U2, L15)

5. Lin bought 3 hats for \$22.50. At this rate, how many hats could she buy with \$60.00? If you get stuck, try using a table. (from U2, L12)

1

6. Light travels about 180 million kilometers in 10 minutes. How far does it travel in 1 minute? How far does it travel in 1 second? Show your reasoning. (from U2, L9)

1

/22

(cc)) BY

Open Up Resources (openupresources.org)

possible

DATE

PERIOD

## 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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PERIOD

- 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. Ada traveled 135 miles in 3 hours. Andre traveled 228 miles in 6 hours. Both Ada and Andre traveled at a constant speed.
  - a. How far did dada 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)