

Name: _____

Date: _____

Class: _____

Unit Rates Homework #2**Unit:** Unit Rates & Percents**Date Assigned:** October 28, 2019**Date Due:** November 4, 2019 (Mon)

Assignments	Self-Assessment	Points Earned
State Test problems (#1-16) <ul style="list-style-type: none"> • Complete the problems thoroughly. • Show all of your work. • Use appropriate labels and units. 	<input type="checkbox"/> I did excellent! <input type="checkbox"/> I did good. <input type="checkbox"/> I did okay. <input type="checkbox"/> I am having trouble understanding.	/ 4
Unit Rate / Solving Proportions practice <ul style="list-style-type: none"> • Complete the problems thoroughly. • Show all of your work. • Use appropriate labels and units. 	<input type="checkbox"/> I did excellent! <input type="checkbox"/> I did good. <input type="checkbox"/> I did okay. <input type="checkbox"/> I am having trouble understanding.	/ 2
Lunchtime Extra Math Help every Tuesday, Thursday @ Room 405 12:20 - 12:55	<input type="checkbox"/> I attended extra help this week. <input type="checkbox"/> I did not attend extra help this week but I want to sign up for next week. <input type="checkbox"/> I do not need extra help at the moment.	

Total points earned: _____

Unit Rates HW 2

1. What number goes in the blank to make the statement below true?

$$3,840 \text{ ounces} = \underline{\hspace{2cm}} \text{ pounds}$$

- A. 24 B. 240 C. 480 D. 61,440
2. Michele is 52 inches tall. Her father is 6 feet 3 inches tall. Exactly how many inches taller is Michele's father than Michele?
- A. 11 B. 13 C. 23 D. 25
3. Lincoln had 2 books in his backpack. One book had a mass of 3 pounds 7 ounces, and the other book had a mass of 2 pounds 10 ounces. What was the total mass, in ounces, of the books?
- A. 60 B. 77 C. 80 D. 97

4. The table below lists the capacity, in quarts, of four different fish tanks at a pet store.

FISH TANK CAPACITY

Fish Tank	Capacity (quarts)
Pacific	240
Fresh	15
Tropic	120
Bahama	60

Which fish tank has a capacity of 60 gallons?

- A. Pacific B. Fresh C. Tropic D. Bahama

5. Nellie has a watering can that contains 20 cups of water. She pours one quart of water on each plant in her yard. If Nellie uses all of the water in the watering can, how many plants does she water?
- A. 4 B. 5 C. 10 D. 80
6. A science teacher has 0.4 liter of seawater. She gives each of her 22 students a container and a 5-milliliter spoon. She then asks her students to put two spoonfuls of seawater into their containers. How many milliliters of seawater will be left after all 22 students have filled their containers?
- A. 70 B. 180 C. 290 D. 780
7. Lori and Maria bought juice to make fruit punch. Maria bought 5 bottles of juice, each containing 750 milliliters. Lori bought 4 liters of juice. Based on this information, which sentence is true?
- A. Lori bought 0.25 liter more juice than Maria.
B. Maria bought 0.75 liter more juice than Lori.
C. Maria bought 33.5 liters more juice than Lori.
D. Lori bought 36.25 liters more juice than Maria.
8. Fei Yen's dog eats 8 ounces of dog food each day. Fei Yen bought a 28-pound bag of dog food. How many 8-ounce servings are in a 28-pound bag of dog food?
- A. 14 B. 56 C. 224 D. 448

9. Min wants to make 100 name tags with ribbons attached to them. Each name tag requires five centimeters of ribbon. She has 3.25 meters of ribbon. Exactly how many more centimeters of ribbon does Min still need to make 100 name tags?

A. 175

B. 305

C. 325

D. 825

10. A seamstress needs to cut 15-inch pieces of ribbon from a roll of ribbon that is 9 feet in length. What is the greatest number of 15-inch pieces the seamstress can cut from 5 of these rolls of ribbon?

11. A factory adds three red drops and two blue drops of coloring to white paint to make each pint of purple paint. The factory will make 50 gallons of this purple paint. How many drops of red and blue coloring will the factory need in the 50-gallon batch of purple paint?

12. Samantha is using a 2-liter pitcher to serve lemonade to 10 of her friends. How many times will she need to fill the pitcher in order to serve each friend 400 milliliters of lemonade?

13. Rosalva and Jake walked a certain distance each day. They recorded the distances in the table shown below.

DISTANCE WALKED

	Rosalva (kilometers)	Jake (meters)
Monday	1.5	1,450
Tuesday	0.69	1,590
Wednesday	1.04	1,204
Thursday	2.1	1,977
Total		

What is the difference, in meters, between Rosalva's and Jake's total distances walked over the four days?

14. The water level in an ocean bay changes at an average rate of 3 meters per hour. At this rate, how many hours would it take for the water level to change 12 meters?
- A. $\frac{1}{4}$ B. $\frac{1}{3}$ C. 4 D. 36
15. A recipe for lemonade calls for 1 cup of sugar and 5 cups of water. How much sugar is used per cup of water?
- A. $\frac{1}{6}$ cup B. $\frac{1}{5}$ cup C. $\frac{1}{4}$ cup D. $\frac{5}{1}$ cup
16. Felicity babysat 2 hours each night for 10 nights. She earned a total of \$180 babysitting. Felicity wants to calculate her hourly rate. How much did Felicity earn per hour babysitting?
- A. \$9 B. \$15 C. \$18 D. \$20

Name : _____

Unit Rate

Sheet 1

- 1) Jessica bakes 112 muffins in 7 batches. How many muffins does each batch contain?

- 2) Henry is an avid reader. He devours 90 pages in half-an-hour. How many pages has Henry read per minute?

- 3) Simon neatly arranges 35 radio-controlled cars in 5 rows on the shelf. Find the number of cars placed in each row.

- 4) Diana bought two dolls for her nieces. How much did each doll cost, if she purchased them for \$70?

- 5) On New Year's Eve, the temperature fell by 24 degrees in a span of 6 hours. By how many degrees did the temperature fall every hour?

- 6) Four business class railcars in Acela express has a total capacity of 260 passengers. How many passengers can travel per railcar?

Name : _____

Solving Proportions

Sheet 1

- 1) Isaac and his friends pitched 4 Trekker tents in 60 minutes on a camping site. How long will they take to pitch 5 tents?

- 2) Fiona, an avid food blogger posted a total 216 recipes in 36 weeks. If she posted them at a constant rate, how many recipes did she upload in 15 weeks' time?

- 3) Jacob strode up 24 steps in 12 seconds to reach his apartment on the second floor. How many steps did he climb in 9 seconds?

- 4) Derek uses a 52 inch flat steel bar that weighs 10.4 lb to make a rack in the garage. Find the weight of a 67-inch steel bar.

- 5) Mike completed an online course that contained 20 core topics in a total of 40 learning hours. How many topics did he complete in 12 hours time?

- 6) Alexa bought a pack of 12 cookies for \$3.50 from the supermarket. How many packs of cookies can she buy for \$17.50?
