

FALL 2014 MATH 1481

HOMEWORK 3

Due in class on Thursday, September 11th.

Please post any questions to the Piazza forum so that others may benefit from the answer. If you see a question that you can answer please take the time to craft a careful response.

- (1) Enya walked 2 km 309 m from school to the store. Then she walked from the store to her home. If she walked a total of 5 km, how far was it from the store to her home?

Provide two different Teacher's Solutions to this problem. You are not required to draw a diagram. Your answer must take the form of a complete sentence.

- (2) One package weighs 2 kg 485 g. Another package weighs 5 kg 959 g. What is the total weight of the two packages?

Provide two different Teacher's Solutions to this problem. You are not required to draw a diagram. Your answer must take the form of a complete sentence.

- (3) Shyans barrel contained 6 liters 775 milliliters of paint. She poured in 1 liters 118 milliliters more. The first day Shyan used 2 liters 125 milliliters of the paint. At the end of the second day, there was 1 liters 769 milliliters of paint remaining in the barrel. How much paint did Shyan use on the second day?

Provide a Teacher's Solution.

- (4) Complete the following table

Pounds	Ounces
1	
2	
4	
10	
12	

Describe how to convert from pounds to ounces.

- (5) Tracys rain barrel has a capacity of 27 quarts of water. Beths rain barrel has a capacity of twice the amount of water as Tracys rain barrel. Trevors rain barrel can hold 9 quarts of water less than Beths barrel.
  - (a) What is the capacity of Trevors rain barrel?
  - (b) If Tracy, Beth, and Trevors rain barrels were filled to capacity and they poured all of the water into a 30-gallon bucket, would there be enough room?

Provide a Teacher's Solutions to this problem. Draw an appropriate bar diagram.

- (6) How many 5 ounce bags of pretzels can be made from  $22\frac{3}{4}$  pounds of pretzels?
- (7) Homework Set 2 of Elementary Geometry for Teachers , Page 10, Problems 2, 4, 5, and 6. For problem 4 only provide solutions to the questions on page 28.
- (8) Homework Set 3 of Elementary Geometry for Teachers , Page 16, Problems 2, 3b, and 5.
- (9) Homework Set 4 of Elementary Geometry for Teachers , Page 23, Problems 4 and 5.