Lesson 3 Practice Problems

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 fish 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.

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3. Tyler's height is 57 inches. What could be his height in centimeters?

   A. 22.4

   B. 57

   C. 144.8

   D. 3,551

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

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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.)