

NAME

DATE

PERIOD

Unit 4, Lesson 13: Measurement Error

1. The depth of a lake is 15.8 m.
 - a. Jada accurately measured the depth of the lake to the nearest meter. What measurement did Jada get?
 - b. By how many meters does the measured depth differ from the actual depth?
 - c. Express the measurement error as a percentage of the actual depth.

2. A watermelon weighs 8,475 grams. A scale measured the weight with an error of 12% under the actual weight. What was the measured weight?

3. Noah's oven thermometer gives a reading that is 2% greater than the actual temperature.
 - a. If the actual temperature is 325°F , what will the thermometer reading be?

 - b. If the thermometer reading is 76°F , what is the actual temperature?

4. At the beginning of the month, there were 80 ounces of peanut butter in the pantry. Now, there is $\frac{1}{3}$ less than that. How many ounces of peanut butter are in the pantry now?
 - A. $\frac{2}{3} \cdot 80$

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B. $\frac{1}{3} \cdot 80$

C. $80 - \frac{1}{3}$

D. $(1 + \frac{1}{3}) \cdot 80$

(from Unit 4, Lesson 4)

5. a. Fill in the table for side length and area of different squares.

side length (cm)	area (cm ²)
3	
100	
25	
s	

- b. Is the relationship between the side length of a square and the area of a square proportional?

(from Unit 3, Lesson 7)