

### STEAM CH 3 REVIEW

#### Numeric Response

Enter the appropriate value to answer the question or solve the problem.

1. Shellie spent \$10.56 on oranges that cost \$0.88 per orange. How many oranges did she purchase?

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2. The average weight of a bass in a neighborhood lake is 5.1 pounds. Norman and his friend caught 4 bass. Assuming the bass were all average weight, what was the total weight in pounds of the fish they caught?

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3. Find the area in square meters of a rectangle with a length of 2.1 meters and a height of 0.8 meter.

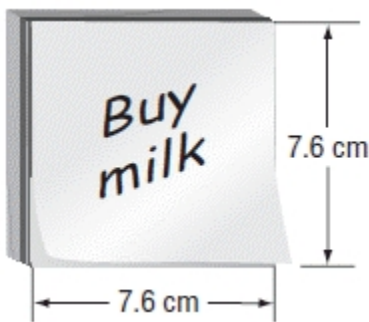
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#### Multiple Choice

Indicate the answer choice that best completes the statement or answers the question.

- \_\_\_ 4. Justin was estimating the area of the square sticky note shown below. Which would be a reasonable estimate of the area of the note? Use  $A = lw$ .



- a. 36 square centimeters      b. 49 square centimeters  
c. 64 square centimeters      d. 72 square centimeters
- \_\_\_ 5. Marlene purchased 20 stamps at the post office for \$8.40. What is the cost of one stamp?
- a. \$0.41      b. \$0.42  
c. \$1.68      d. \$2.38

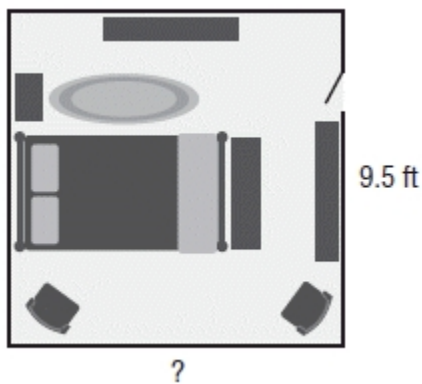
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\_\_\_ 6. Bartholomew went hiking over the weekend. He hiked all 4 trails in 3 hours. Which is the **best** estimate for the number of miles he hiked in one hour?

Trail	Length (mi)
Great Fork	1.7
Stoney Creek	0.8
Sippo Lake	2.6
Rock Falls	0.5

- a. 2 miles      b. 3 miles
- c. 15 miles    d. 18 miles

\_\_\_ 7. The area of Trina’s bedroom is 96.9 square feet. What is the length of her bedroom? Use  $A = lw$ .



- a. 10.2 feet    b. 10.0 feet
- c. 9.2 feet     d. 9.0 feet

\_\_\_ 8. A model plane is 100 times smaller than an actual plane. The length of the model is 4.8 inches. What is the actual length of the plane?

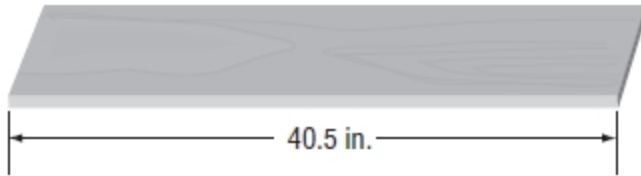
- a. 480 feet    b. 40 feet
- c. 20 feet     d. 8 feet

\_\_\_ 9. Malabar Middle School is raising money for a local charity. Their goal is to raise \$500 by their holiday break. If they have 10 days before their break, what is a reasonable amount that they should collect each day to reach their goal?

- a. \$5          b. \$25
- c. \$50        d. \$100

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\_\_\_ 10. Ignacio cut the board shown into 4.5 -inch pieces. How many pieces can he cut?



- a. 6      b. 7
- c. 8      d. 9

\_\_\_ 11. The table below shows times from the Men’s 4 × 100 meter Medley. The four swimmers each swam 100 meters.

2008 Olympic Results	
Team	Time (min:sec)
United States	3:29.34
Australia	3:30.04
Japan	3:31.18
Russian Federation	3:31.92

Suppose each swimmer swam the same amount of time. How long did each United States swimmer swim in the race?

- a. 67.335 s      b. 67 s
- c. 52.335 s      d. 52 s

Subjective Short Answer

12. **SHORT RESPONSE** Manuel bought supplies for making party favors. The table shows the cost of each supply. If Manuel made 12 party favors, how much did it cost to make each party favor?

Supply	Cost (\$)
Bags	2.00
Candy	5.75
Stickers	6.39
Pencils	4.82

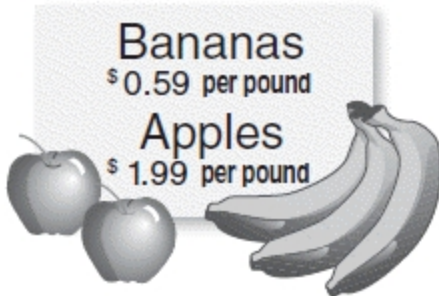
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13. **SHORT RESPONSE** Rita bought 5.7 pounds of bananas and 2.8 pounds of apples. Write a multiplication expression and find the total cost for the fruit. Round to the nearest cent.




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Essay

14. **EXTENDED RESPONSE** Wesley lives in an apartment and would like to have his own vegetable garden. His city offers garden plots, but he has to pay for the fencing. Use  $A = lw$ .

Plot A	Plot B	Plot C
Area: 204 ft <sup>2</sup>	Area: ■	Area: 204.49 ft <sup>2</sup>
Length: ■	Length: 12.78 ft	Length: ■
Height: 10.2 ft	Height: ■	Height: 14.3 ft
Perimeter: ■	Perimeter: 57.56 ft	Perimeter: ■

**Part A** Find the missing measurement for each plot.

**Part B** Which plot requires the least amount of fencing?

**Part C** Which plot has the greatest area?

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### Answer Key

1. 12
2. 20.4
3. 1.68
4. c
5. b
6. a
7. a
8. b
9. c
10. d
11. c
12. \$1.58
13.  $5.7 \times 0.59 = 3.363$  or 3.36 and  $2.8 \times 1.99 = 5.572$  or 5.57; So she paid \$8.93 for the bananas and apples.
14. **Part A**  
plot A: base: 20 ft, perimeter: 60.4 ft plot B: area: 204.48 sq ft, height: 16 ft plot C: base: 14.3 ft, perimeter: 57.2 ft  
  
**Part B**  
Plot C  
  
**Part C**  
Plot C