

**Chapter 2 – Cumulative Assessment – Practice Test & Study Guide**

Insert grouping symbols to make the number sentence true.

1.)  $125 \div 25 + 7 = 12$

2.)  $2 + 7 * 6 \div 2 = 27$

3.)  $9 = 90 \div 19 - 9$

4.)  $156 = 21 + 5 * 6$

Write each expression in the correct column.

- 5.) a)       $3 * (13+6)$                $13 + 6 - 5$                $(13 + 6) \div 2$   
                   $4 + 13 + 6$                $(13 + 6) * 7$                $(13 + 6) - 7$

$> (13 + 6)$	$< (13 + 6)$

b.) Did you need to evaluate the expression to solve problem a? Why or why not?

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6.) Why is a unit cube a good unit for measuring volume?

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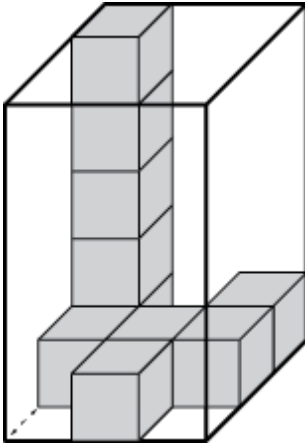
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7.) a.) Find the volume of the prism.

Volume = \_\_\_\_\_ cubic units



b.) Explain how you found the volume of the prism.

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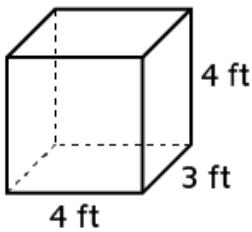
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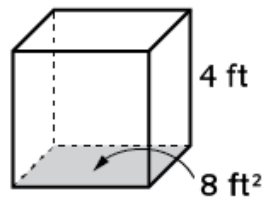
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8.) Mario is buying boxes from a moving company. He wants to buy the box that will fit the most of his belongings. He can choose between the following three options:

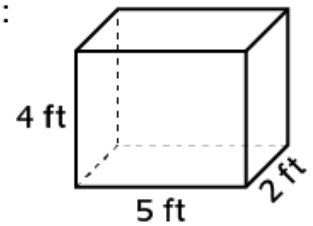
Box 1:



Box 2:



Box 3:



a.) What is the volume of each box? Write a number sentence that shows how you found the volume. **Remember:  $V = l \cdot w \cdot h$  and  $V = B \cdot h$**

Volume of box 1: \_\_\_\_\_ Volume of box 2: \_\_\_\_\_ Volume of box 3: \_\_\_\_\_

Number sentence: \_\_\_\_\_ Number sentence: \_\_\_\_\_ Number sentence: \_\_\_\_\_

b.) Which box should Mario buy? Explain your answer.

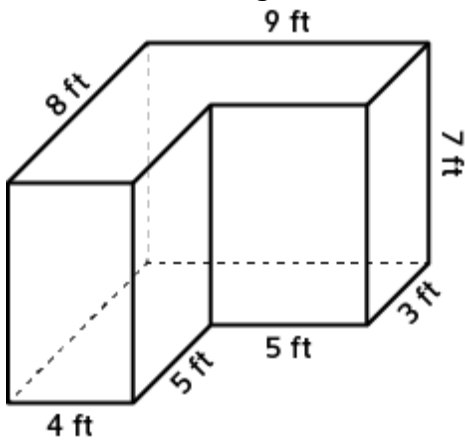
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9.) Angie's family is renting a storage unit. The storage facility gave Angie's family this sketch of a storage unit.



a.) What is the volume of the storage unit? \_\_\_\_\_

b.) Angie's family estimated that they need a unit with a volume of 15 cubic yards. How many cubic feet of storage space do they need? (\*Hint: There are 3 feet in 1 yard.)

Angie's family needs \_\_\_\_\_ cubic feet of storage space.

c.) Is the storage unit large enough for Angie's family? Explain why or why not.

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