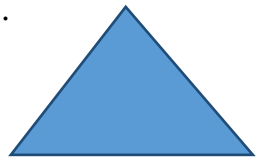
Name_____

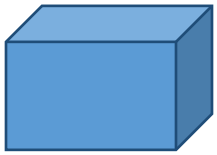
Volume Assessment

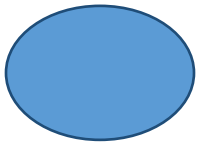
M.5.MD.3	Recognize volume as an attribute of solid figures and understand concepts of volume measurement.
M.5.MD.4	Measure volumes by counting unit cubes, using cubic cm, cubic in, cubic ft, and improvised units.
M.5.MD.5	Relate volume to the operations of multiplication and addition and solve real world and mathematical problems involving volume.

1. **In which of these 3 figures can volume be measured?**

a. 

b. 

c. 

d. 

True or False. If the statement is false, add or subtract words/phrases to make it true.

2. _____ Volume is a measurement of 2 dimensional figures.

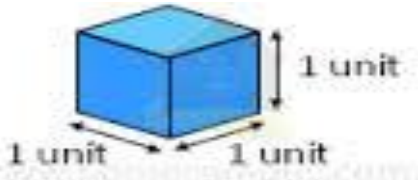
3. _____ In order to measure volume, it must be packed without gaps or overlaps.

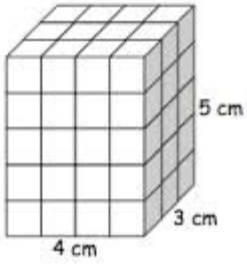
4. _____ Unit cubes (side length of 1 unit) can be used to measure volume.

5. _____Volume is not additive.

6. _____ We can decompose 3-dimensional shapes and find volumes of right rectangular prisms by viewing them as decomposed layers of arrays and cubes.

7. Below is a picture of a unit cube. How does this relate to volume?



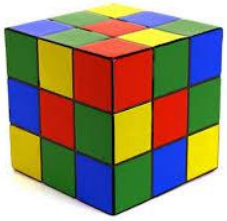
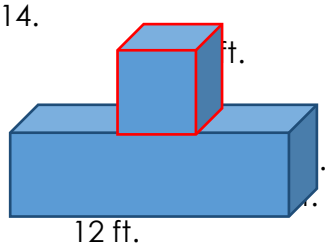


8. In your own words, explain how to find the volume of this rectangular prism.

9. How do you find the base of a rectangular prism?

BASE= _____ x _____

Find the volume of the following items.

10.  L=10in W=6in H=4in	11.  Base=120 cm² H=17cm
12.  L=4in	13.  L=3ft W=3ft. H=2ft
14.  12 ft.	15. Total Volume= 250 cm.³ What is the volume of each individual cube? V=_____ L=_____ W=_____ H=_____