

# Math 6 - Unit 5: Area & Volume

## End of Unit Test Study Guide

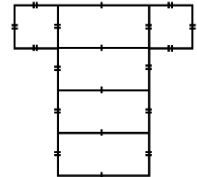
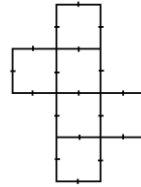
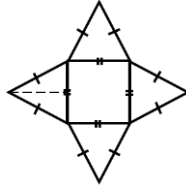
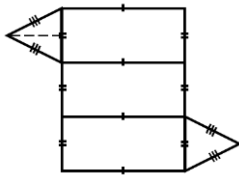
Name: \_\_\_\_\_

Class Period: 1 2 3 4 Date: \_\_\_\_\_

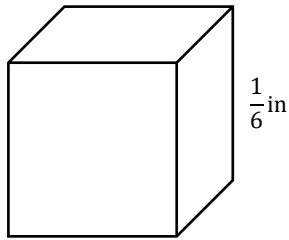
1) How is SURFACE AREA similar to COMPOSITE AREA?

2) Is painting your house a real world example of SURFACE AREA or VOLUME?

3-6) What shape is formed by folding the following nets?

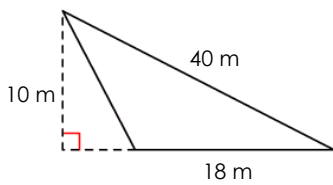


7)



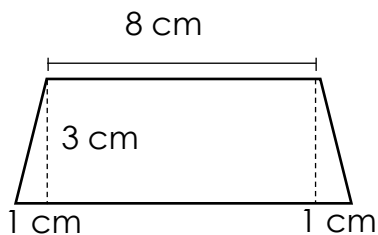
**Volume of the Cube:** \_\_\_\_\_

8)



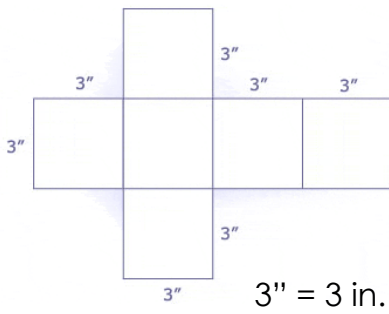
**Area:** \_\_\_\_\_

9)



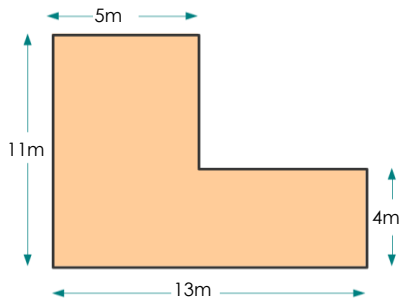
**Area:** \_\_\_\_\_

10)



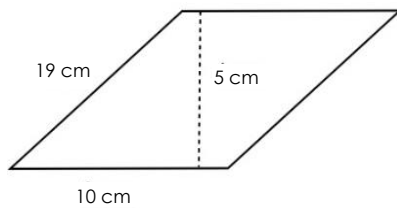
Surface Area: \_\_\_\_\_

11)



Area: \_\_\_\_\_

12)



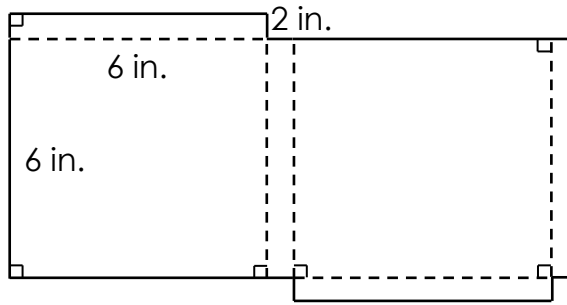
Area: \_\_\_\_\_

13) A rectangular pool is 10 feet long,  $5\frac{1}{2}$  feet wide and 6 feet deep. How many cubic feet of water can it hold? (Volume)

Volume: \_\_\_\_\_

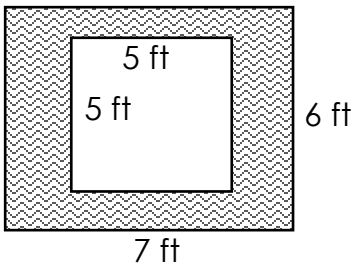
14) A box is covered with wrapping paper with no overlap. The net of the box is shown below.

How many square inches of wrapping paper is needed to cover the surface area of the box?



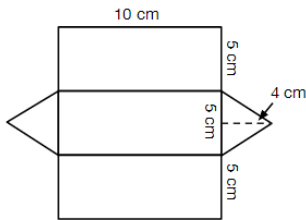
**Surface Area:** \_\_\_\_\_

15) What is the area of the shaded frame?



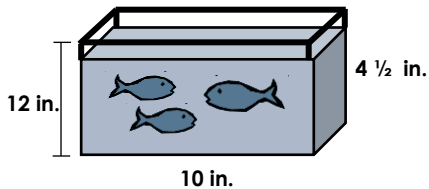
**Area:** \_\_\_\_\_

16) What is the surface area of the triangular prism?



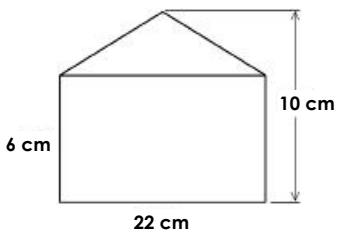
**Surface Area:** \_\_\_\_\_

17) A fish tank is shown below. How many cubic inches of water can fit inside the tank?



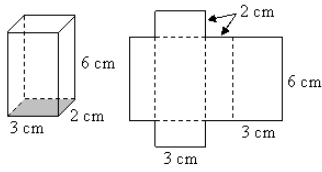
**Volume:** \_\_\_\_\_

18)



**Area:** \_\_\_\_\_

19) How many square cm of paper are needed to wrap the outside of the figure?



Surface Area: \_\_\_\_\_

20) Which of the following could be folded to make a cube? Circle one.



21) Give a real world example of something that relates to volume.

# Math 6 - Unit 5: Area & Volume

Name: \_\_\_\_\_

End of Unit Test Study Guide

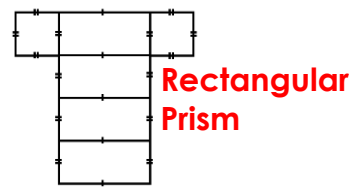
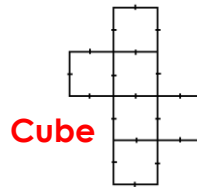
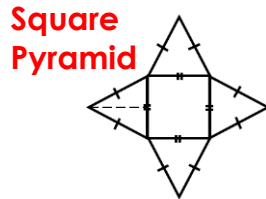
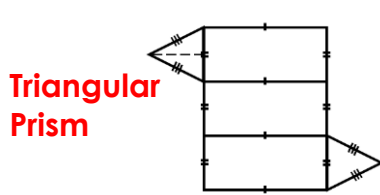
## ANSWER KEY

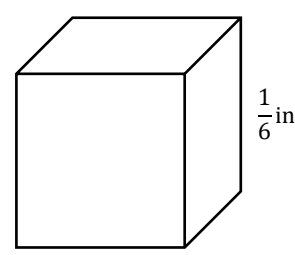
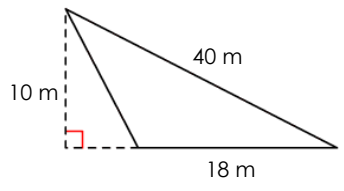
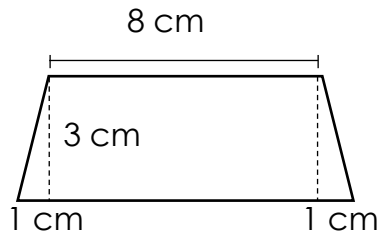
Class Period: 1 2 3 4 Date: \_\_\_\_\_

1) How is SURFACE AREA similar to COMPOSITE AREA? **When finding either surface area or composite area you have to find the area of the parts and add them together.**

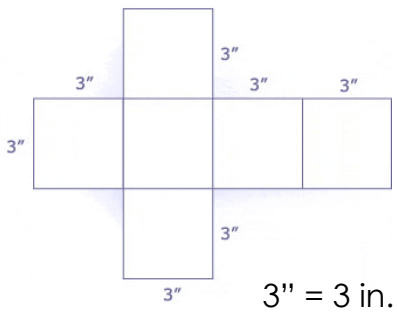
2) Is painting your house a real world example of SURFACE AREA or VOLUME? **Surface Area**

3-6) What shape is formed by folding the following nets?



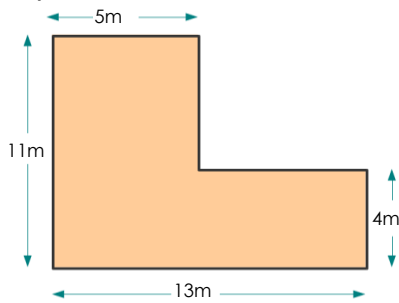
7) 	<b>Volume of the Cube: <math>\frac{1}{216} \text{ in}^3</math></b>
8) 	<b>Area: 90 m<sup>2</sup></b>
9) 	<b>Area: 27 cm<sup>2</sup></b>

10)



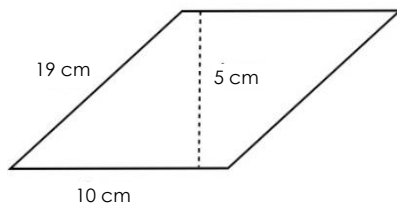
Surface Area: **54 in<sup>2</sup>**

11)



Area: **87 m<sup>2</sup>**

12)



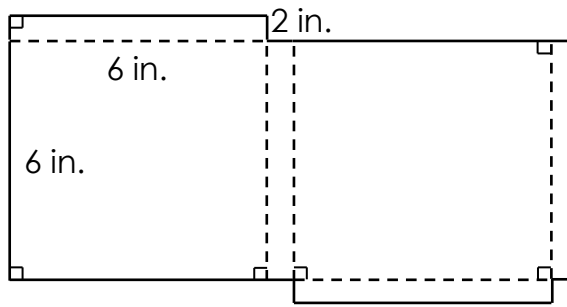
Area: **50 cm<sup>2</sup>**

13) A rectangular pool is 10 feet long,  $5\frac{1}{2}$  feet wide and 6 feet deep. How many cubic feet of water can it hold? (Volume)

Volume: **330 ft<sup>3</sup>**

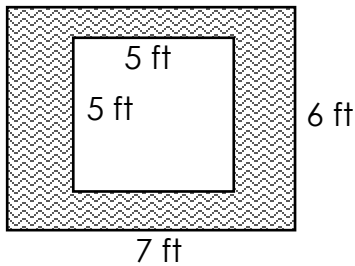
14) A box is covered with wrapping paper with no overlap. The net of the box is shown below.

How many square inches of wrapping paper is needed to cover the surface area of the box?



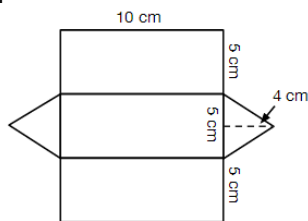
**Surface Area: 120 in<sup>2</sup>**

15) What is the area of the shaded frame?



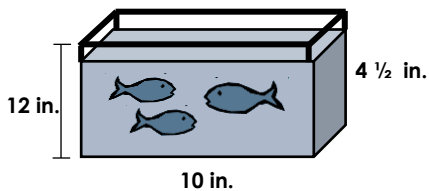
**Area: 17 ft<sup>2</sup>**

16) What is the surface area of the triangular prism?



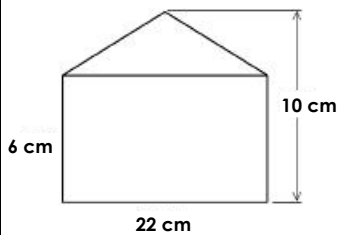
**Surface Area: 170 cm<sup>2</sup>**

17) A fish tank is shown below. How many cubic inches of water can fit inside the tank?



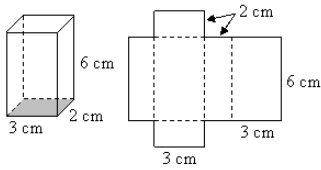
**Volume: 540 in<sup>3</sup>**

18)



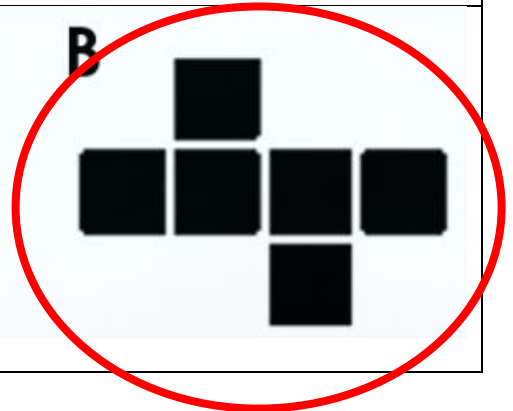
**Area: 176 cm<sup>2</sup>**

19) How many square cm of paper are needed to wrap the outside of the figure?



Surface Area: **72 cm<sup>2</sup>**

20) Which of the following could be folded to make a cube? Circle one.



21) Give a real world example of something that relates to volume. **ANSWERS WILL VARY**  
**Finding out how much water will fill a swimming pool or an aquarium.**