

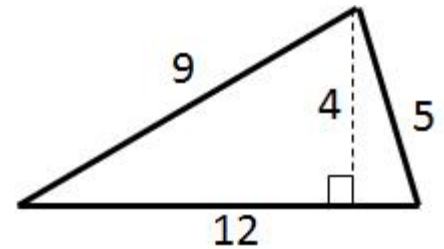
Math 6 - Unit 5: Area & Volume

End of Unit Study Guide

Name: _____

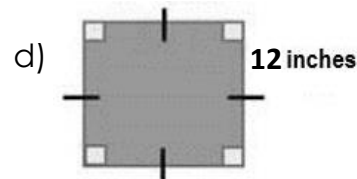
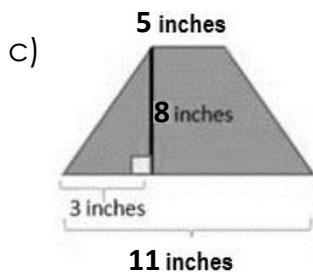
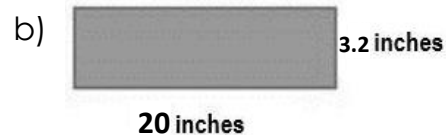
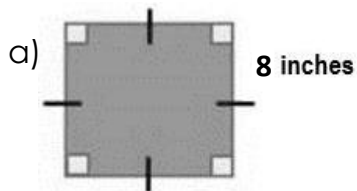
Class Period: 1 2 3 4 Date: _____

- 1) What is the area of the triangle?

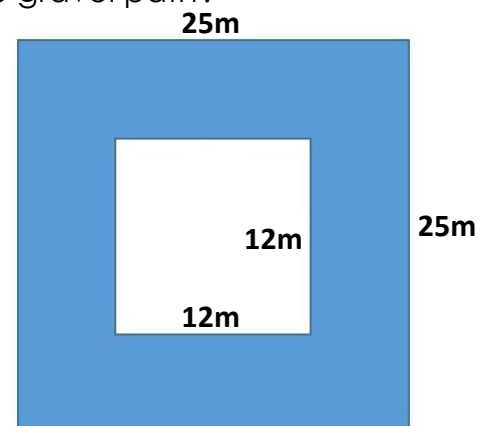


- 2) Carli is getting new carpet for her rectangular bedroom. Her room is 12 feet long and 11 feet wide. If the carpet is \$3.50 per square foot, how much will it cost to carpet her room?

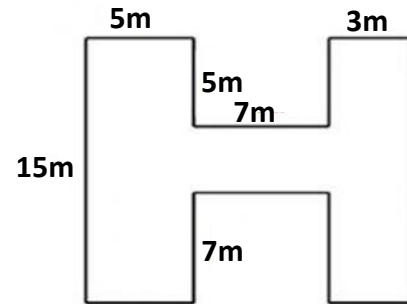
- 3) Which quadrilateral does **NOT** have an area of 64 square inches?



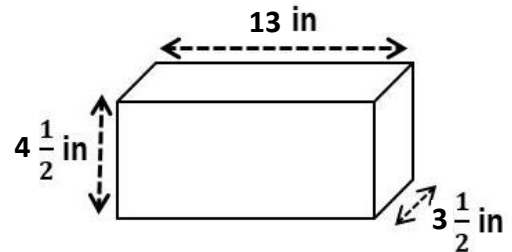
- 4) A 12m by 12m square garden is surrounded by a gravel path. The gravel path is shaded in the diagram below. What is the area of the gravel path?



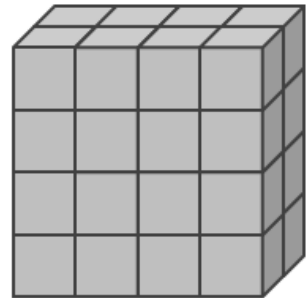
- 5) The letter H is going to be painted in the center of the Henderson High School football field every game. The diagram shows the dimensions of the letter. What is the area of the letter "H"?



- 6) A wall is built using standard size bricks. The illustration shows the dimensions of a construction brick. What is the volume of the brick?



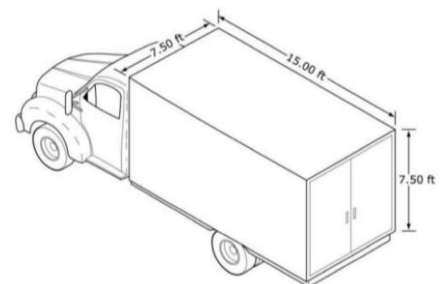
- 7) What is the **volume** of the prism?



- 8) The Audi A7 has $24\frac{1}{2}$ cubic feet of cargo space. Could the following be the dimensions for the cargo space?

$$2\frac{1}{2} ft \cdot 3\frac{1}{2} ft \cdot 5 ft$$

- 9) Sarina has determined she needs a truck with 800 cubic feet of space to move her furniture. Does the truck illustrated have the space she needs?



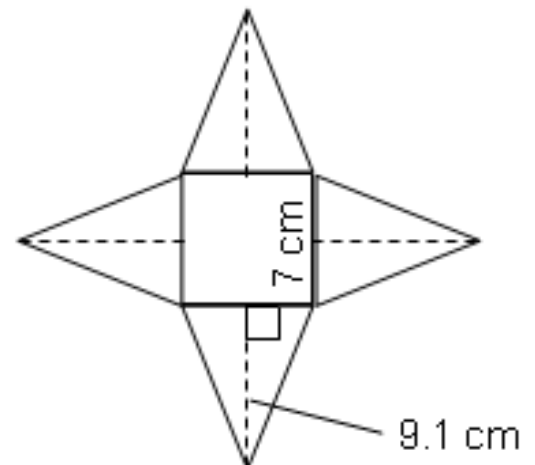
- 10) The dimensions for two boxes are shown in the table. Which box has the greater volume and by how much?

Dimensions	Box A	Box B
Length:	15 cm	8.7 cm
Width:	5.3 cm	3.5 cm
Height:	4 cm	12 cm

- 11) Write a situation that would require you to find the surface area. Write a situation that would require you to find the volume.

- 12) What is the surface area of a cube with a side length of 7 yards?

- 13) Find the surface area of the square pyramid.



- 14) A cereal box is in the shape of a rectangular prism. The height of the box is 16 cm, the width is 6 cm and the length is 8 cm. What is the surface area of the cereal box?

