

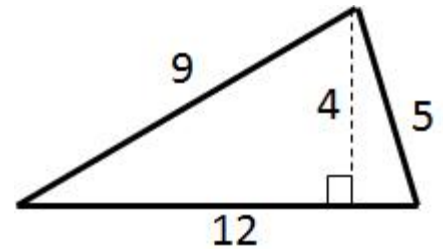
Math 6 - Unit 5: Area & Volume

End of Unit Test

Name: _____

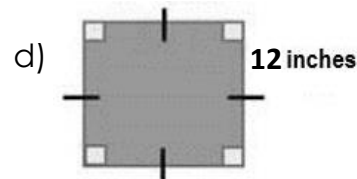
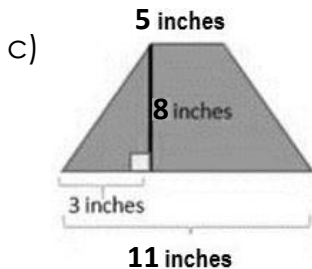
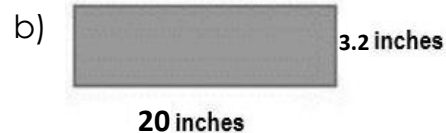
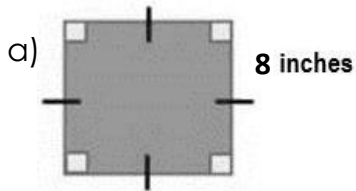
Class Period: 1 2 3 4 Date: _____

- 1) What is the area of the triangle?

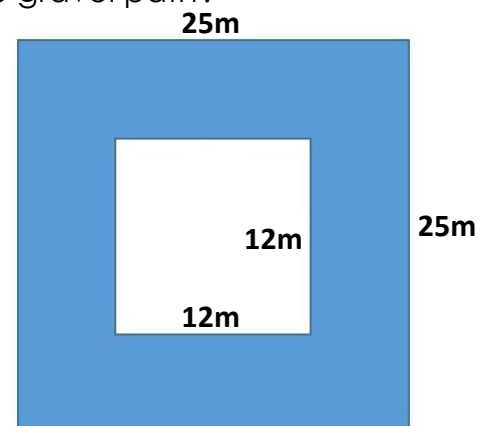


- 2) Carli is getting new carpet for her rectangular bedroom. Her room is 12 feet long and 11 feet wide. If the carpet is \$3.50 per square foot, how much will it cost to carpet her room?

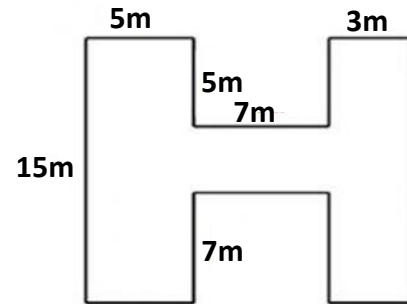
- 3) Which quadrilateral does **NOT** have an area of 64 square inches?



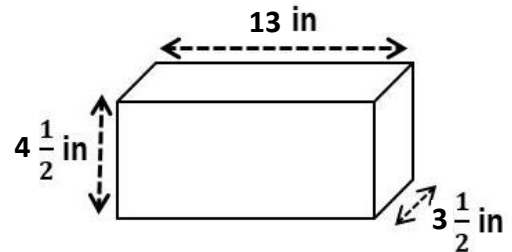
- 4) A 15m by 15m square garden is surrounded by a gravel path. The gravel path is shaded in the diagram below. What is the area of the gravel path?



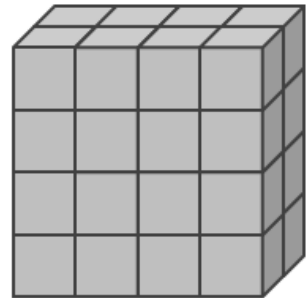
- 5) The letter H is going to be painted in the center of the Henderson High School every game. The diagram shows the dimensions of the letter. What is the area of the letter "H"?



- 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?



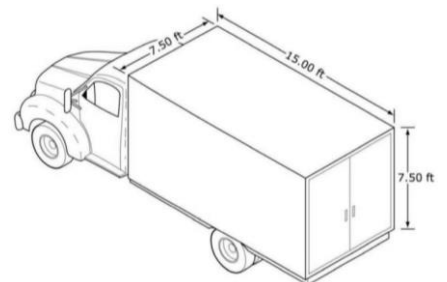
- 7) What is the **volume** of the prism?



- 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?



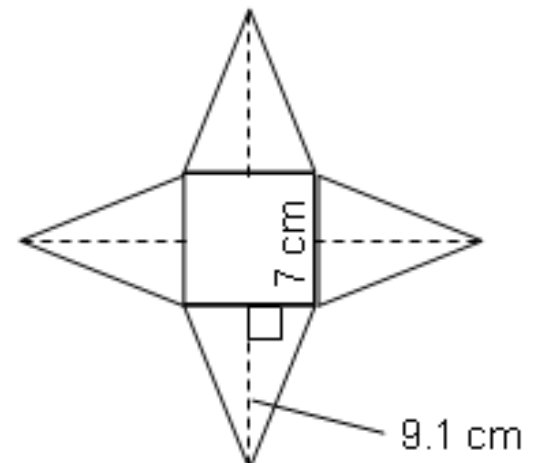
- 10) The dimensions for two boxes are shown in the table. Which box has the greater volume and by how much?

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?

