

Name: _____ Section : _____

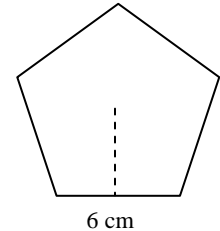
For the following project, you may use any materials. This must be your own original creation. Construct a right pyramid with a base that is a regular pentagon such that each edge of the pentagon measures 6 cm. You choose the height of your pyramid. You will show this to your instructor.

Length of side of pentagon: 6 cm

The dotted line in the sketch is perpendicular to the side of the pentagon and goes to the center of the pentagon.

Length of dotted line in sketch: 4.13 cm

Prepare the following to turn in:

Work to find the area of the pentagonal base:

Area of the pentagonal base to the nearest 0.1 cm^2 . _____ Note: Use this rounded number for subsequent calculations.

Measure the height of the pyramid (by holding a centimeter ruler in a vertical position next to your pyramid) to the nearest 0.1 centimeter : _____

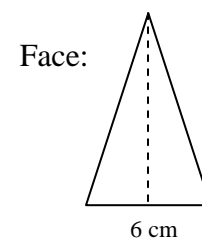
(Please note that this is NOT the same as the length of the dotted line shown below. Ask your instructor if you are unsure of the difference.)

Work to find the volume of the pyramid:

Volume of the pyramid to the nearest 0.1 cm^3 : _____

Length of altitude of face (suggested by dotted line in sketch) to the nearest 0.1 cm: _____

Work to find the area of one triangular face:



Area of one triangular face to the nearest 0.1 cm^2 : _____

Work to find the surface area of the pyramid:

Surface area of the pyramid to the nearest 0.1 cm^2 : _____