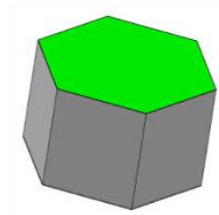
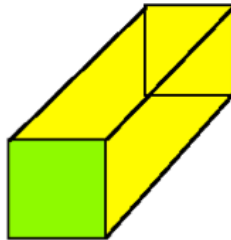
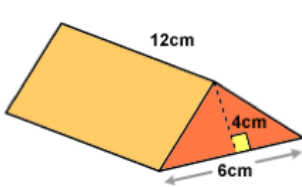


Prisms:

A prism is a _____ object with _____ parallel, _____ polygonal bases. The bases are connected with _____ faces. A prism is named by the shape of the _____.

**Volume :**

Volume is a measure of how much space an object occupies. It is measured in cubic units (cm^3 , m^3 , in^3 , ft^3) because it is a three-dimensional measurement.

Popcorn Prisms Anyone?

Step 1: Take a white paper and fold it in half the long way. Do this a second time. You are forming a baseless rectangular prism that is tall and narrow. Tape along the edge.

Step 2: Measure the length, width and height of this prism with a ruler and record your data below. Label this Prism A.

Step 3: Take a coloured piece of paper and fold it in half the wide way. Do this a second time. You are forming a baseless rectangular prism that is short and stout. Tape along the edge.

Step 4: Measure the length, width and height of this prism with a ruler and record your data below. Label this Prism B.

Dimensions	PRISM A	PRISM B
Length (in)		
Width (in)		
Height (in)		

Do you think the two prisms will hold the same amount? Do you think one will hold more than the other? Which one? Why?

Step 5: Place Prism A inside Prism B. Pour the popcorn into Prism A until it is full. Carefully lift Prism A so that the popcorn falls into Prism B. Describe what happened. Is Prism B full, not full or overflowing?

Conclusion: Which prism holds more?

VOLUME OF A PRISM

To calculate the volume of prism:

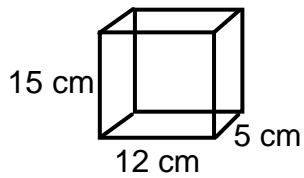
1. Calculate the _____ of the base.
2. Multiply the base _____ by the overall _____ of the prism.

As an equation, this would be:

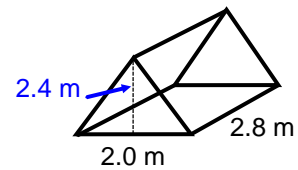
Volume = _____ X _____

Examples

a)



b)



c)

