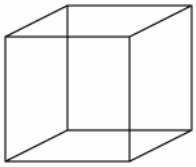
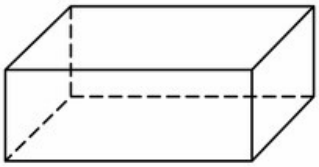
Volume of Prism and cylinder

Concept

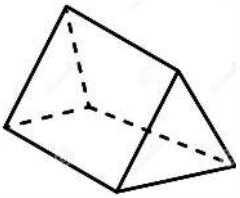
Volume is the amount of space inside a 3 dimensional shape. It is also known as capacity of a container. There are many kinds of shapes that comes in many sizes, so lets start with easier shapes. Here are the four we will cover in this worksheet. The reason these are easier is because you can use your previous knowledge of area to help you to find the volume



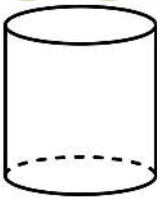
Cube



Rectangular Prism



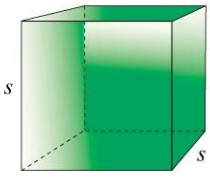
Triangular Prism



Cylinder

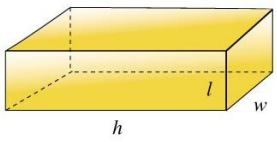
If you look closely all the shapes has same top and bottom and parallel sides. This means all we need to do is find the area of base and multiply by the height.

Cube



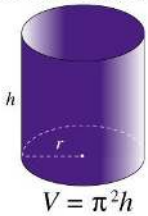
$V = s^3$

Rectangular Prism



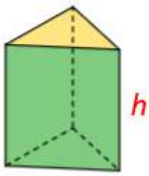
$V = lwh$ or $V = Bh$

Cylinder



$V = \pi^2 h$

Triangular Prism

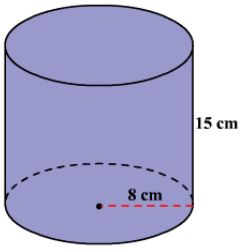


Triangular Prism
V = area of triangle x h

Assignment

Find the volume of each shape.

a)



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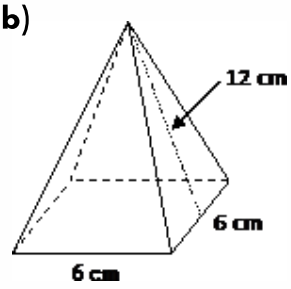

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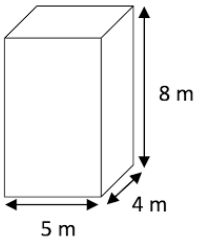

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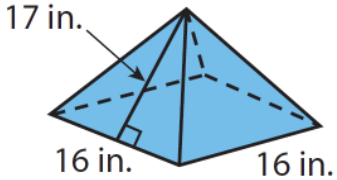

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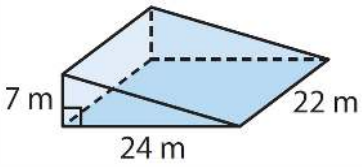
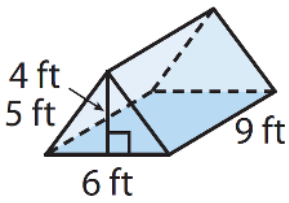
f)