

What's Going On?

Checking In

Minds on

Whaddya know?

Action!

The Formulae

Consolidation

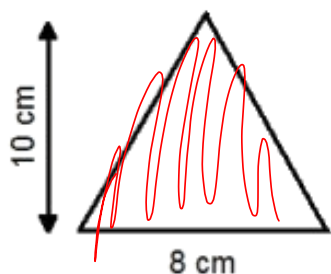
Practice

Learning Goal - I will be able to calculate the volume of prisms, pyramids, cones and spheres.

Minds on

Whaddya Know?

How much paint would you need to paint the triangle?

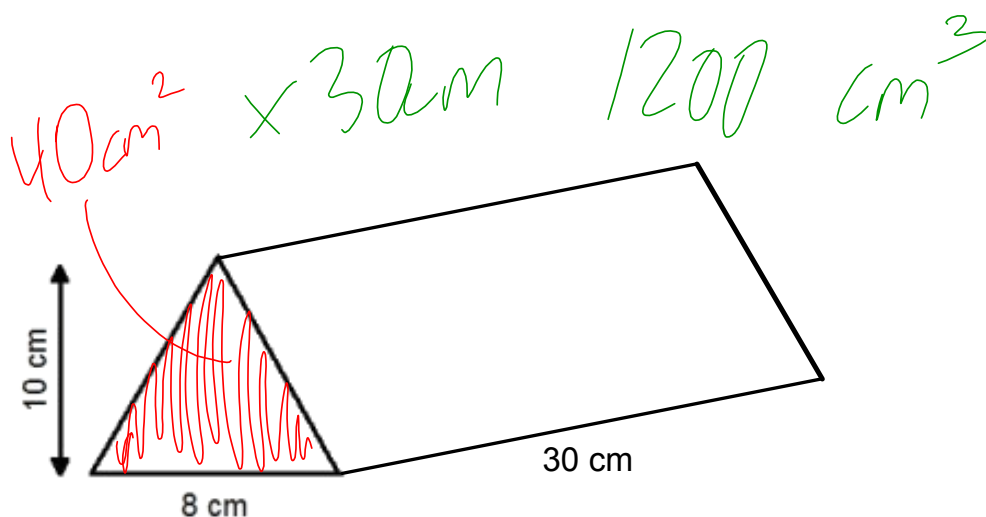


~~80 cm~~ ~~40 cm~~
~~80 cm²~~ 40 cm²

Minds on

Whaddya Know?

How much paint would you need to fill the triangular prism?

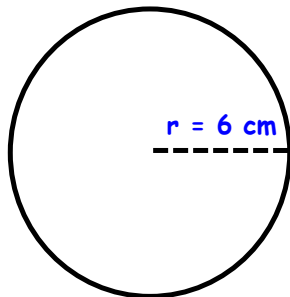


Minds on

Whaddya Know?

How much paint would you need to paint the circle?

$$A = \pi r^2$$

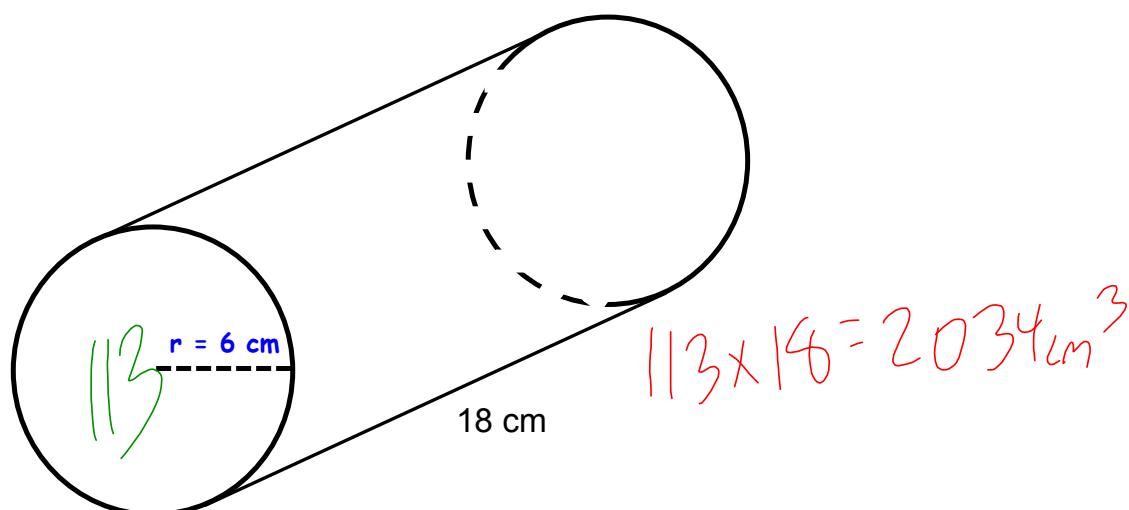


$$\pi \times 36 = 113.0 \text{ or } 1$$

Minds on

Whaddya Know?

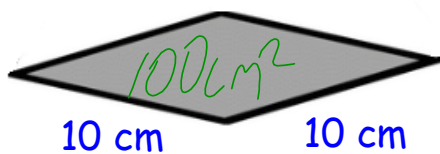
How much paint would you need to fill the cylinder?



Minds on

Whaddya Know?

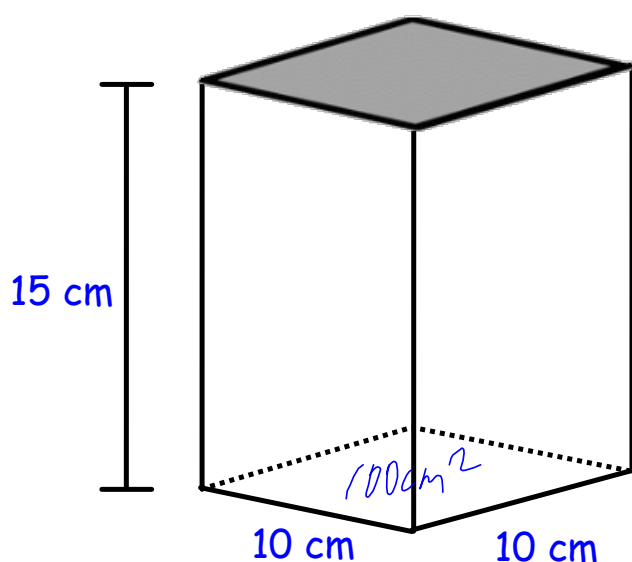
How much paint would you need to paint the square?



Minds on

Whaddya Know?

How much paint would you need to paint the square?

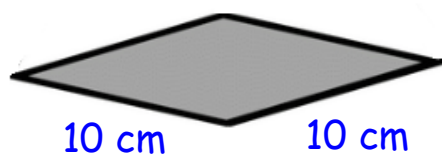


1500cm^3

Minds on

Whaddya Know?

How much paint would you need to paint the square?

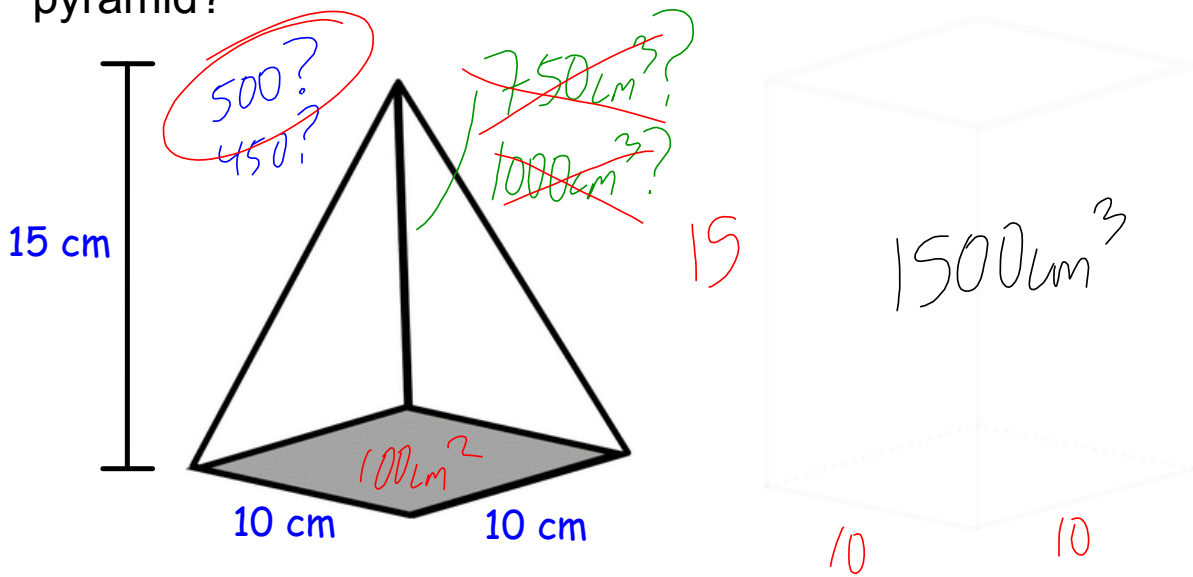


100cm^2

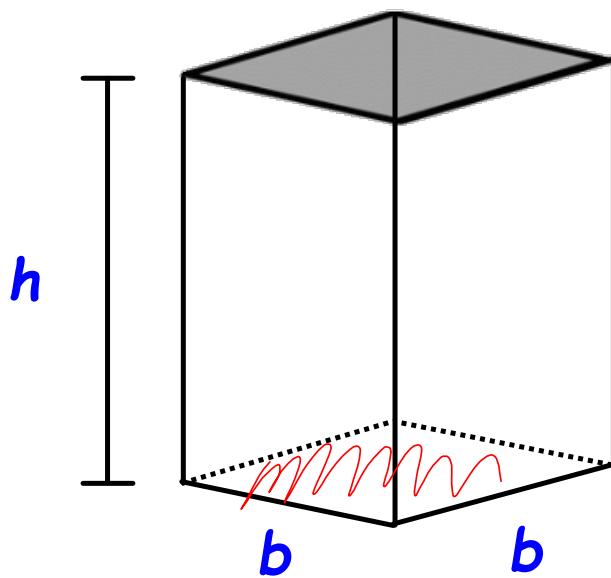
Minds on

Whaddya Know?

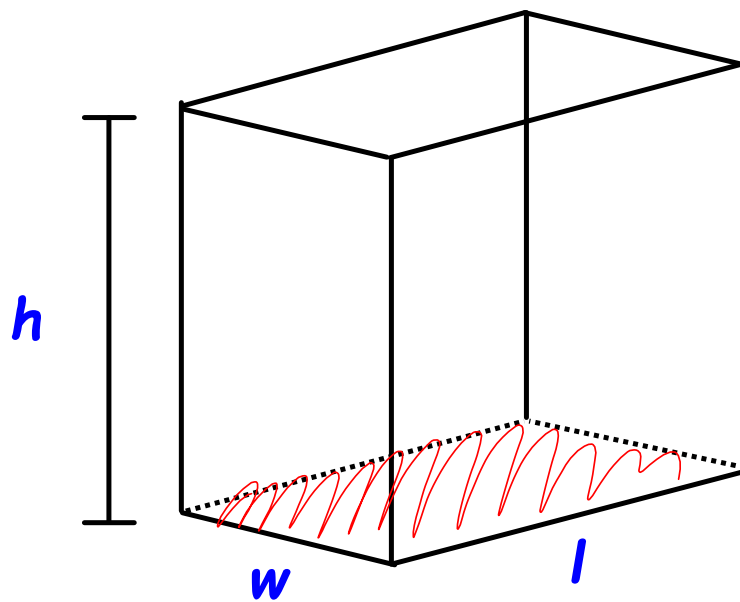
How much paint would you need to fill the square-based pyramid?



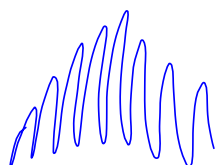
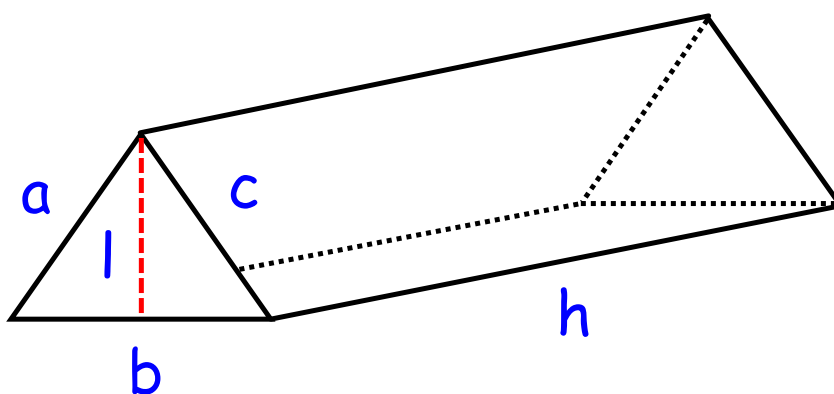
Square-based Prism



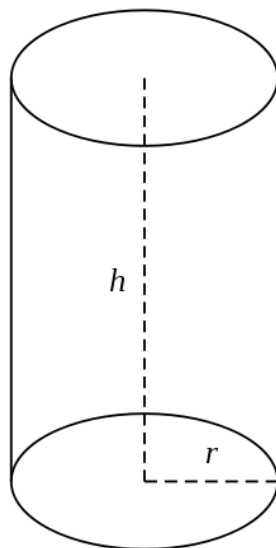
Rectangular-based Prism



Triangular -based Prism



Circular -based Prism??



A.K.A.
Cylinder

Action!

The Formulae

Volume of **ANY** Prism

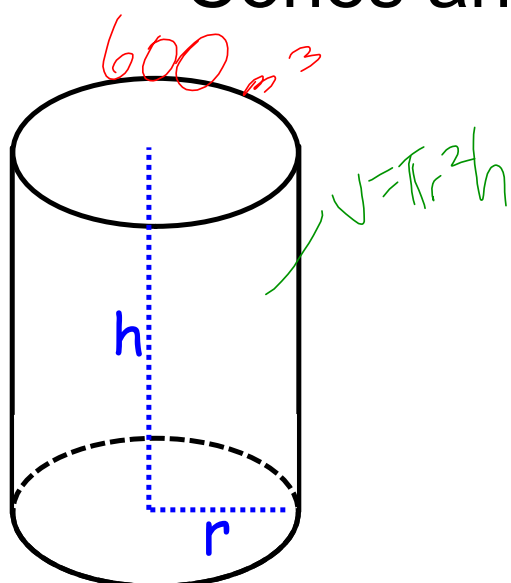
$$V = (A_{\text{Base}})(\text{height})$$

Volume of a Pyramid

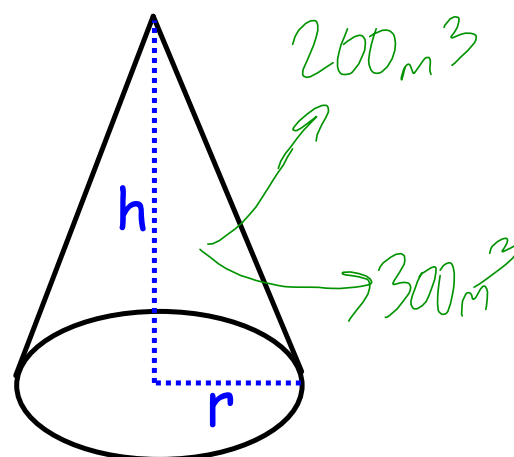
$$V = \frac{(A_{\text{Base}})(\text{height})}{3}$$

Consolidation

Cones and Spheres



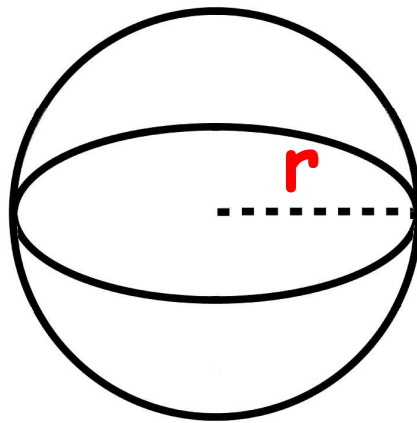
$$V = \pi r^2 \times \text{height}$$



$$V = \frac{\pi r^2 \times \text{height}}{3}$$

Consolidation

Cones and Spheres



$$V = \frac{4}{3} \pi r^3$$

$$\frac{4\pi r^3}{3}$$

