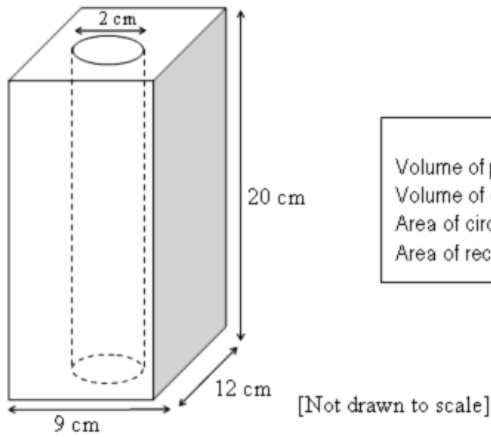


Hole in a prism

This task is about calculating volumes of composite shapes.



Useful equations:

Volume of prism = area of base \times height
Volume of cylinder = area of base \times height
Area of circle = $\pi \times \text{radius}^2$
Area of rectangle = length \times width

a) Show how to work out the volume of this wooden prism before a cylindrical hole is bored through it.

Volume of wood in whole prism _____ cm^3

b) Show how to work out the volume of wood remaining in the prism after a cylindrical hole has been bored through it.

Volume of wood left _____ cm^3