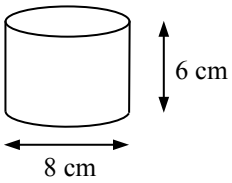
SPHERES, CONES AND CYLINDERS

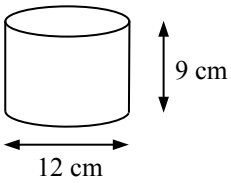
SURFACE AREA AND VOLUME

Ref: G429.2R1

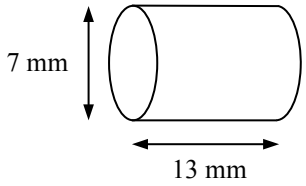
A1
Calculate the **curved** surface area.



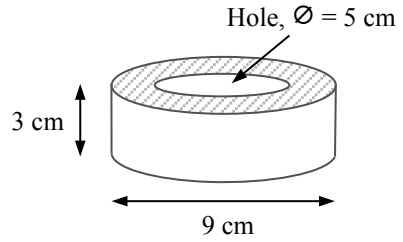
A2
Calculate the volume.



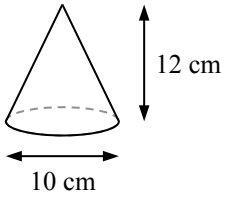
A3
Calculate the **total** surface area.



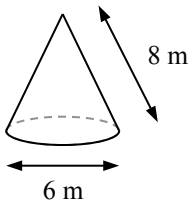
A4
Calculate the volume.



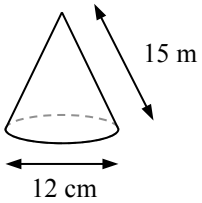
B1
Calculate the volume.



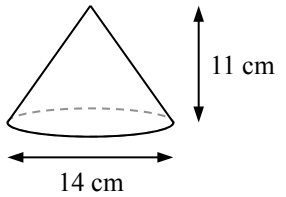
B2
Calculate the **curved** surface area.



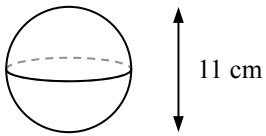
B3
Calculate the volume.



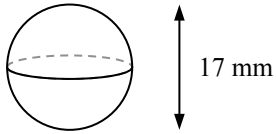
B4
Calculate the **total** surface area.



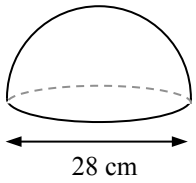
C1
Calculate the surface area.



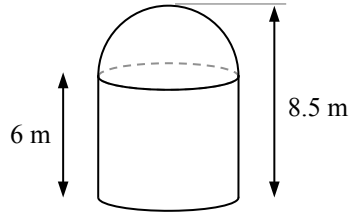
C2
Calculate the volume.



C3
Calculate the **total** surface area of the hemisphere.



C4
Calculate the **total** surface area.



REVIEW

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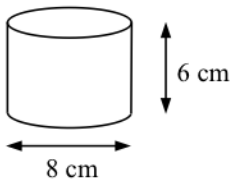
SPHERES, CONES AND CYLINDERS

SURFACE AREA AND VOLUME

Ref: G429.2R1

A1 $A = 2\pi rh$

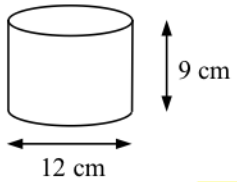
Calculate the **curved** surface area.



48π — 151 cm²

A2 $V = \pi r^2 h$

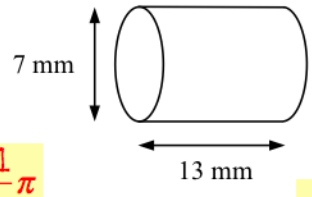
Calculate the volume.



324π — 1018 cm³

A3 $A = 2\pi rh + 2\pi r^2$

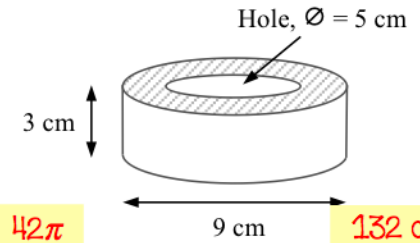
Calculate the **total** surface area.



$\frac{231}{2}\pi$ — 363 mm²

A4 $V = \pi R^2 h - \pi r^2 h$

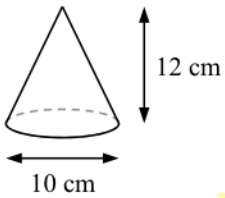
Calculate the volume.



42π — 132 cm³

B1 $V = \frac{1}{3}\pi r^2 h$

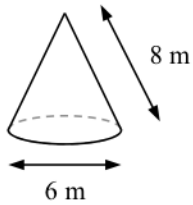
Calculate the volume.



100π — 314 cm³

B2 $A = \pi rl$

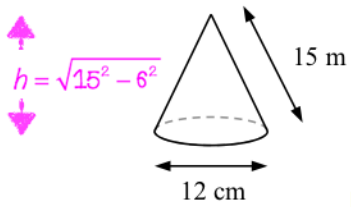
Calculate the **curved** surface area.



24π — 75.4 m²

B3 $V = \frac{1}{3}\pi r^2 h$

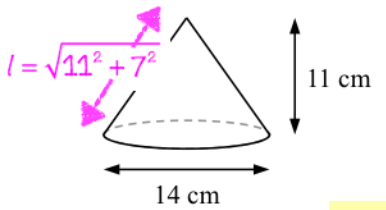
Calculate the volume.



518 cm³

B4 $A = \pi rl + \pi r^2$

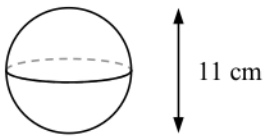
Calculate the **total** surface area.



441 cm²

C1 $A = 4\pi r^2$

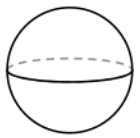
Calculate the surface area.



121π — 380 cm²

C2 $V = \frac{4}{3}\pi r^3$

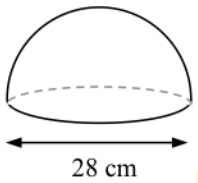
Calculate the volume.



2572 mm³

C3 $A = 2\pi r^2 + \pi r^2$

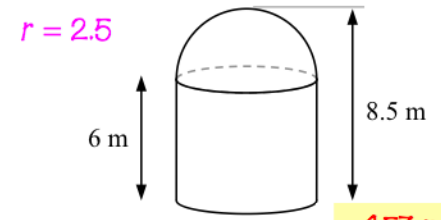
Calculate the **total** surface area of the hemisphere.



588π — 1847 cm²

C4 $A = 2\pi r^2 + 2\pi rh + \pi r^2$

Calculate the **total** surface area.



153 m²