



Volume and Surface Area of Cylinders



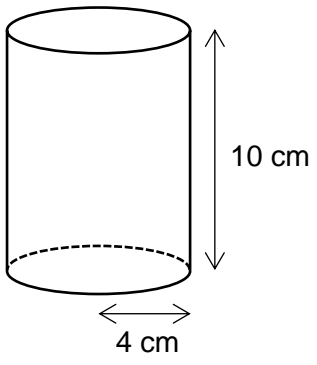
SCAN ME

REVISE THIS TOPIC

CHECK YOUR ANSWERS

SCAN ME

1 Here is a cylinder with a radius of 4 cm and a height of 10 cm.



1 (a) Work out the volume of the cylinder. Give your answer in terms of π . [2 marks]

Answer _____ cm^3

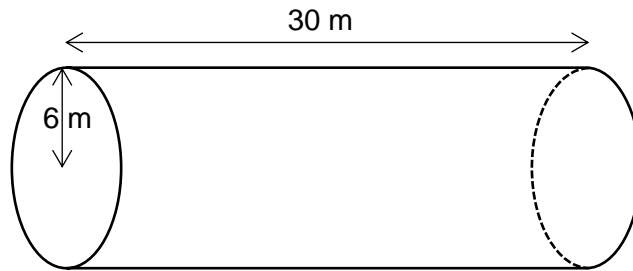
1 (b) Work out the surface area of the cylinder. Give your answer in terms of π . [3 marks]

Answer _____ cm^2





2 Here is a cylinder.



2 (a) Work out the volume of the cylinder.
Give your answer to 1 decimal place. [2 marks]

Answer _____ m³

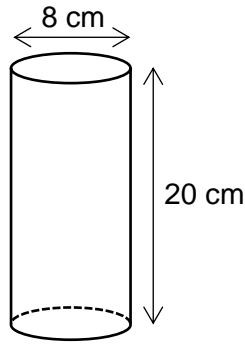
2 (b) Work out the surface area of the cylinder.
Give your answer to 1 decimal place. [3 marks]

Answer _____ m²





3 Here is a cylinder.



3 (a) Work out the volume of the cylinder.
Give your answer to 1 decimal place. [2 marks]

Answer _____ cm^3

3 (b) Work out the surface area of the cylinder.
Give your answer to 1 decimal place. [3 marks]

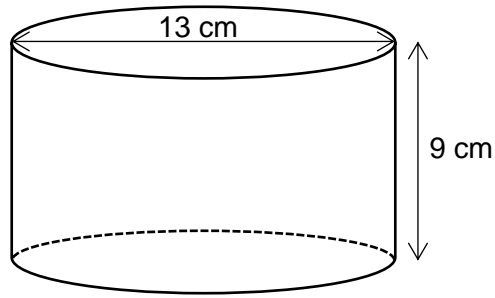
Answer _____ cm^2

Turn over ►





4 Here is a cylinder.



4 (a) Work out the volume of the cylinder.
Give your answer to 4 significant figures. [2 marks]

Answer _____ cm^3

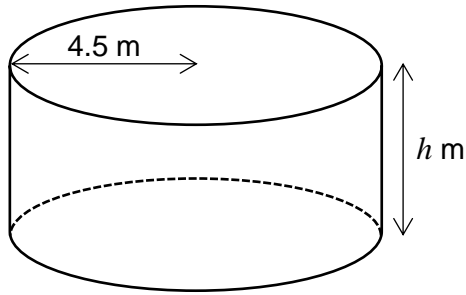
4 (b) Work out the surface area of the cylinder.
Give your answer to 3 significant figures. [3 marks]

Answer _____ cm^2





5 Here is a cylinder with a volume of 299 m^3



5 (a) Work out the value of h , the height of the cylinder.
Give your answer to 1 decimal place. [2 marks]

Answer _____ m

5 (b) Work out the surface area of the cylinder.
Give your answer to 3 significant figures. [3 marks]

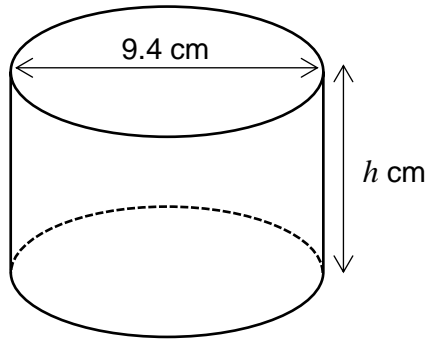
Answer _____ m^2

Turn over ►





6 Here is a cylinder with a volume of 576 cm^3



6 (a) Work out the value of h , the height of the cylinder.
Give your answer to 1 decimal place.

[2 marks]

Answer _____ cm

6 (b) Work out the surface area of the cylinder.
Give your answer to 4 significant figures.

[3 marks]

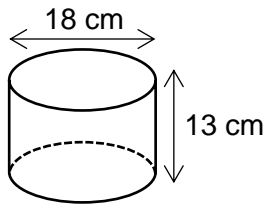
Answer _____ cm^2



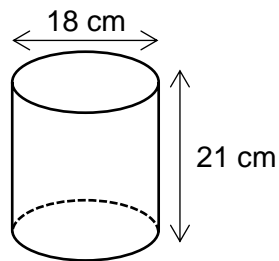


7 Here are two cylinders.

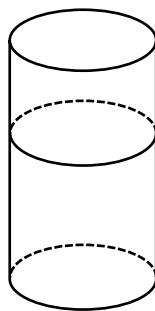
Cylinder A



Cylinder B



Cylinder A is placed on top of **cylinder B** to form a new cylinder.



Work out the surface area of the new cylinder.
Give your answer to 4 significant figures.

[3 marks]

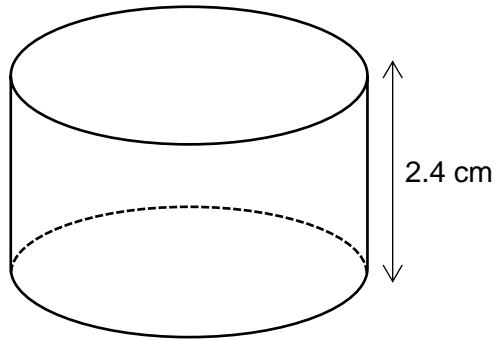
Answer _____ cm²

Turn over ►





8 Here is a cylinder with a height of 2.4 cm



The ratio of the radius of the cylinder to the height of the cylinder is 2 : 3

8 (a) Work out the volume of the cylinder.
Give your answer to 1 decimal place. [3 marks]

Answer _____ cm³

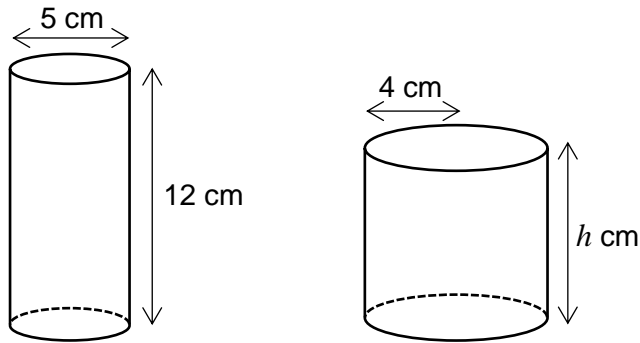
8 (b) Work out the surface area of the cylinder.
Give your answer to 3 significant figures. [3 marks]

Answer _____ cm²





9 Here are two cylinders with the same volume.



Work out the value of h , the height of the second cylinder.
Give your answer to 2 decimal places.

[4 marks]

Answer _____ cm

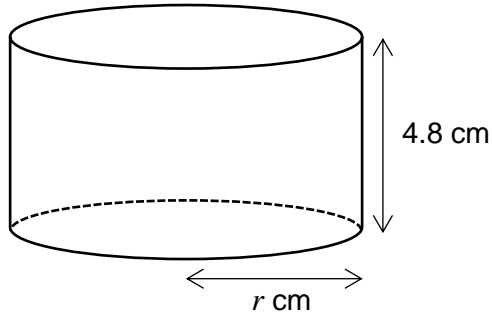


Turn over ►





10 Here is a cylinder with a volume of 266 cm^3



10 (a) Work out the value of r , the radius of the cylinder.
Give your answer to 1 decimal place. [3 marks]

Answer _____ cm

10 (b) Work out the surface area of the cylinder.
Give your answer to 4 significant figures. [3 marks]

Answer _____ cm^2

