



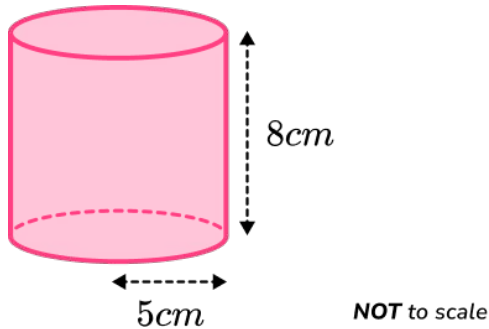
THIRD SPACE
LEARNING

GCSE Exam Questions

Volume of a Cylinder |
Geometry & Measure

GCSE Exam Questions: Volume of a Cylinder

- 1) Here is a cylinder.

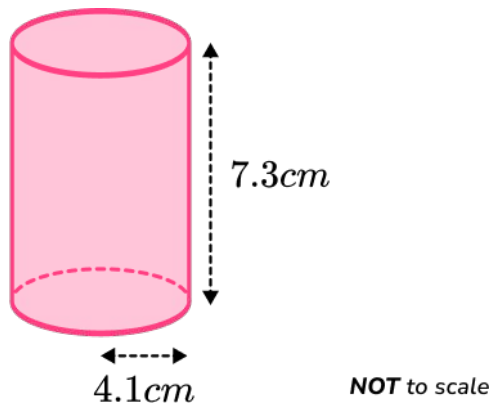


Calculate the volume of the cylinder.

Leave your answer in terms of π .

..... cm^3
(3 marks)

- 2) Here is a cylinder.



Calculate the volume of the cylinder. Give your answer to 2 d.p.

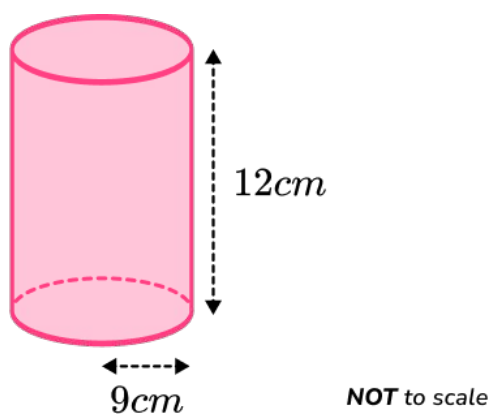
..... cm^3
(3 marks)

GCSE Exam Questions: Volume of a Cylinder

- 3) Billy is filling up flower pots with soil.

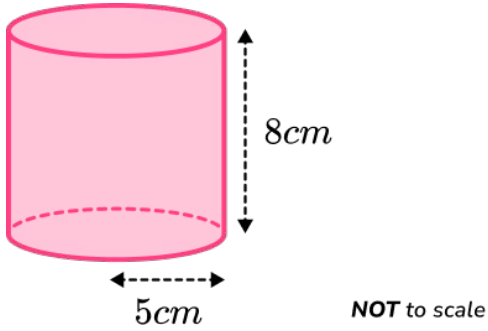
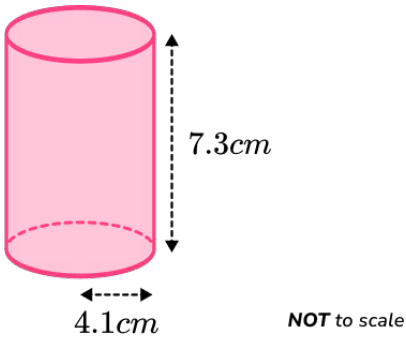
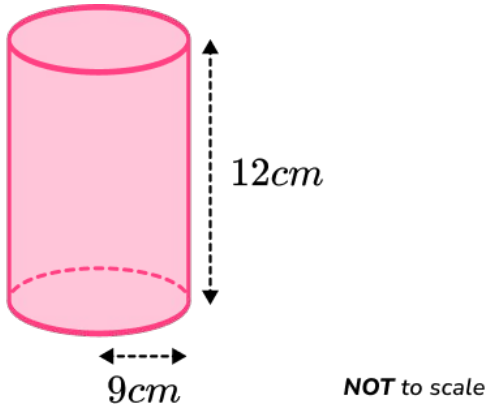
Each flower pot has a radius of 9cm and height of 12cm .

If Billy has 3 flower pots, how many litres of soil is needed to fill all the pots?



(5 marks)

GCSE Exam Questions: Volume of a Cylinder Answers

	Question	Answer	Marks
1)	Here is a cylinder.  Calculate the volume of the cylinder. Leave your answer in terms of π.	$V = \pi r^2 h$ $V = \pi(5^2)(8)$ $V = 200\pi \text{ cm}^3$	(1) (1) (1)
2)	Here is a cylinder.  Calculate the volume of the cylinder. Give your answer to 2 d.p.	$V = \pi r^2 h$ $V = \pi(4.1^2)(7.3)$ $V = 385.51 \text{ cm}^3$	(1) (1) (1)
3)	Billy is filling up flower pots with soil. Each flower pot has a radius of 9cm and height of 12cm. If Billy has 3 flower pots, how many litres of soil is needed to fill all the pots? 	$V = \pi r^2 h$ $V = \pi(9^2)(12)$ $V = 3053.63 \text{ cm}^3$ $1\text{L} = 1000 \text{ cm}^3$ $3053.63 \div 1000$ $3.0563... \text{ litres per pot}$ $3.0563... \times 3 = 9.16 \text{ litres}$	(1) (1) (1) (1) (1)

Where to go next?

For more diagnostic questions, and GCSE maths revision resources and worksheets to support students in fixing any misconceptions take a look at the free Third Space Learning [GCSE maths revision](#) pages.

Scan the QR code to discover our library of FREE GCSE maths revision resources

Do you have KS4 students who need additional support in maths?



Our specialist tutors will help students to develop the skills they need to succeed at GCSE in weekly one to one online revision lessons. Trusted by secondary schools across the UK.

Visit thirdspacelearning.com to find out more.