

Examples



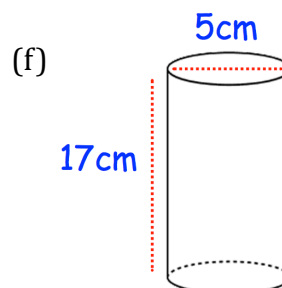
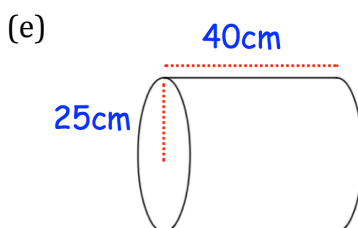
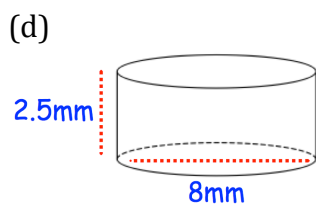
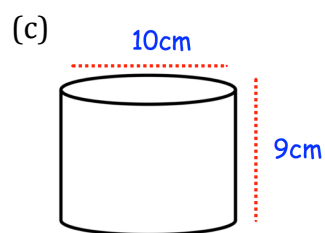
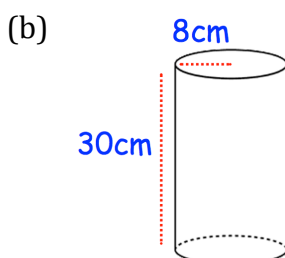
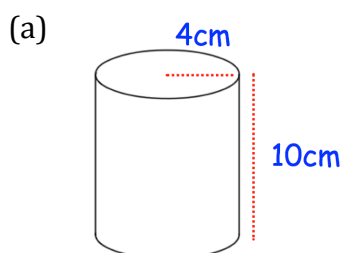
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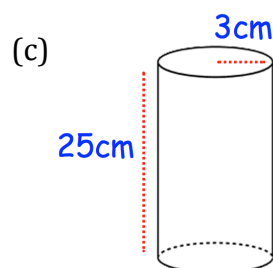
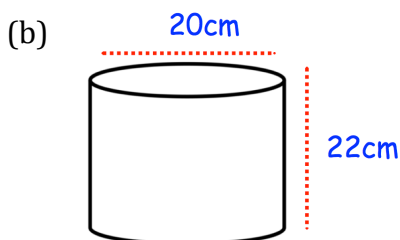
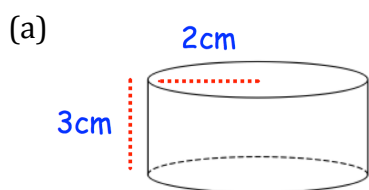
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Workout

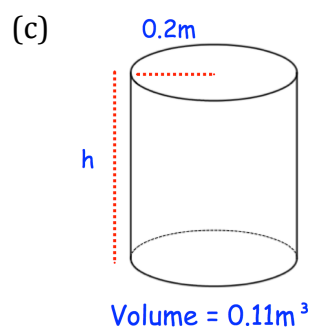
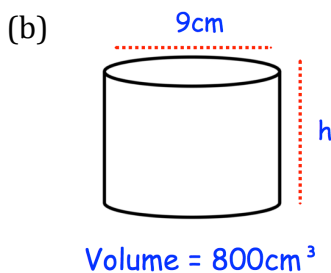
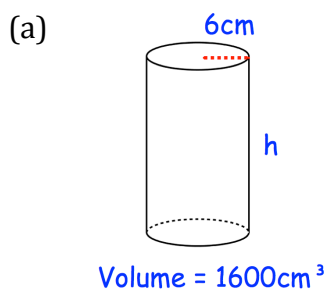
Question 1: Work out the volume of each cylinder.
Give each answer to one decimal place.



Question 2: Work out the volume of each cylinder.
Give each answer in terms of π .



Question 3: Work out the height of each cylinder.
Give each answer to one decimal place.

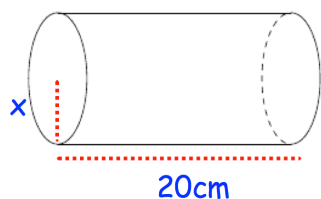


Volume of a Cylinder

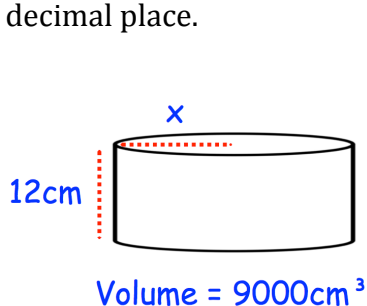
Video 357 on www.corbettmaths.com

Question 4: Work out the value of x .
Give each answer to one decimal place.

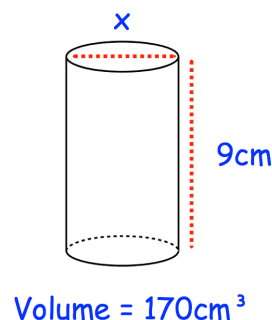
(a) Volume = 725cm^3



(b)



(c)



Apply

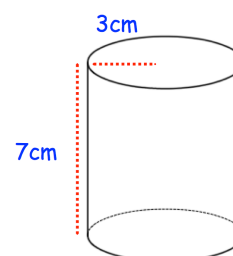
Question 1: A cylindrical oil drum has a diameter of 48cm and a height of 92cm .
Calculate the volume of the oil drum.



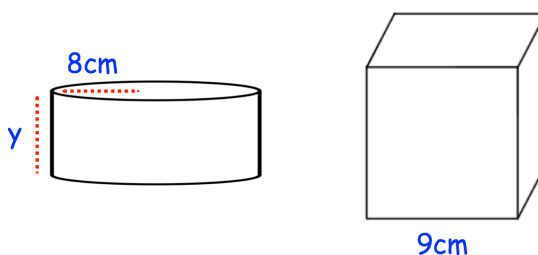
Question 2: A cylinder has a radius of 2m and a height of 5cm .
Work out the volume of the cylinder in terms of π .

Question 3: Timothy is filling cups with orange juice.
Each cup is a cylinder with radius 3cm and height 7cm .
Timothy has 2 litres of orange juice.
 1 litre = 1000cm^3

How many cups can be filled?



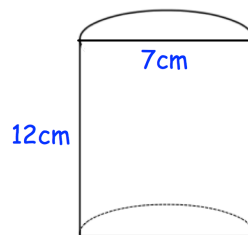
Question 4: Shown below is a cylinder and a cube.
The volume of the cylinder is equal to the volume of the cube.
Find y .



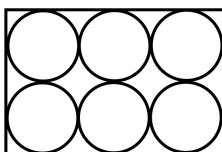
Volume of a Cylinder

Video 357 on www.corbettmaths.com

Question 5: Calculate the volume of this shape.

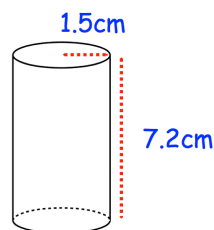


Question 6: 6 cylinders are placed in a crate as shown below.
The radius of each cylinder is 4cm and the height of each cylinder is 14cm.
The crate also has a height of 14cm.



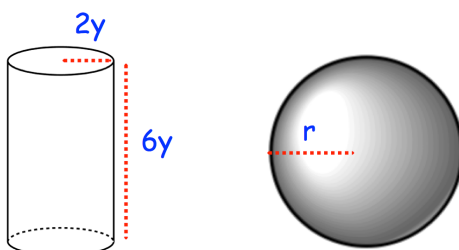
What percentage of space in the crate is empty?

Question 7: A solid glass cylinder has a radius of 1.5cm and a height of 7.2cm.
The density of the glass is 2.61g/cm^3
Work out the mass of the cylinder.

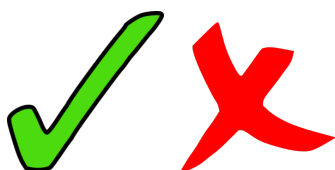


Question 8: The diagram shows a solid cylinder.
The cylinder has radius of $2y$ and height of $6y$.
The cylinder is melted down and made into a sphere of radius r .

Express r in terms of y .



Answers



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