Corbett maths

Surface Area: Cylinders

Video 315 on www.corbettmaths.com

Examples

Workout

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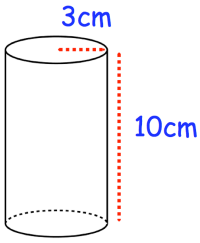
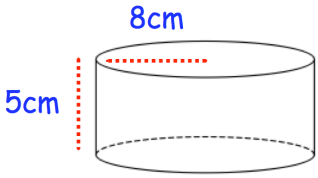
Question 1: Work out the surface area of each of the following cylinders.
Give each answer to 2 decimal places.

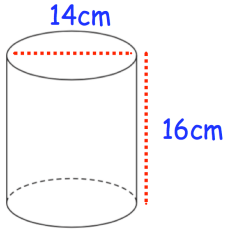
(a)



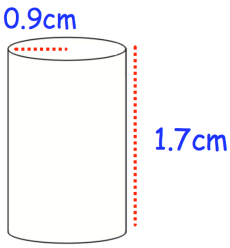
(b)



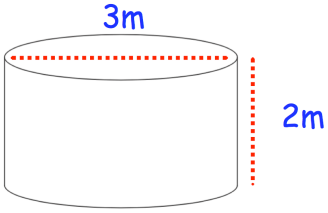
(c)



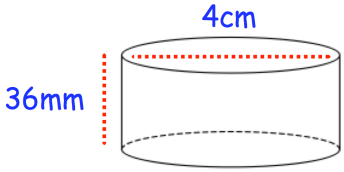
(d)



(e)

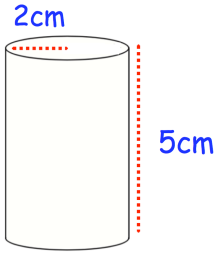


(f)

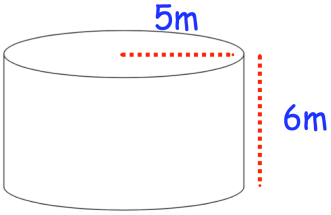


Question 2: Work out the surface area of each of the following cylinders.
Leave your answers in terms of **π**

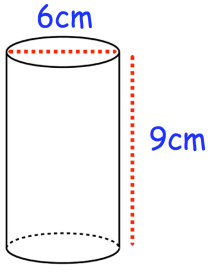
(a)



(b)

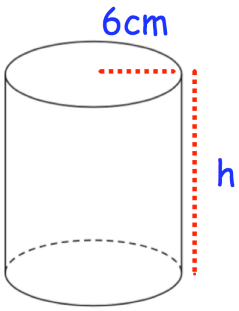


(c)



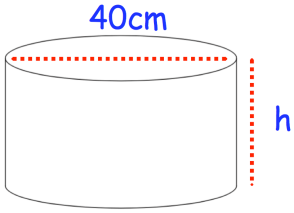
Question 3: Work out the height of each cylinder below

(a)



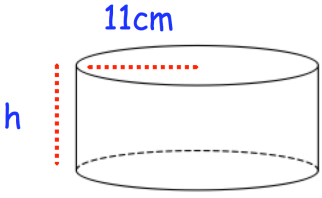
Surface area = 980.18cm²

(b)



Surface area = 4715cm²

(c)



Surface area = 850cm²

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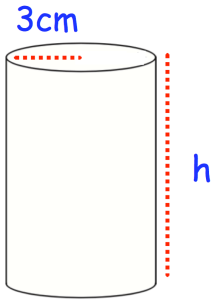
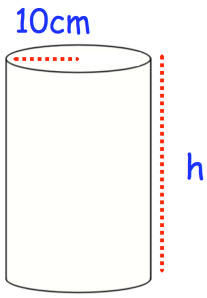
Question 4: Work out the height of each cylinder below

(a)



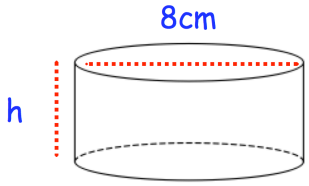
Surface area = 84π cm^2

(b)



Surface area = 900π cm^2

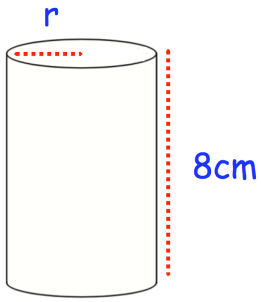
(c)



Surface area = 56π cm^2

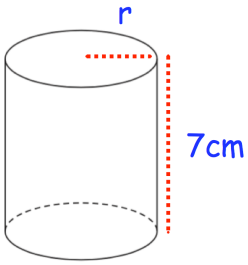
Question 5: Work out the radius of each cylinder below

(a)



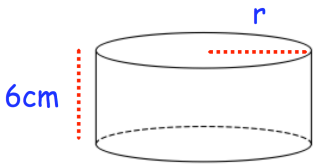
Surface area = 18π cm^2

(b)



Surface area = 36π cm^2

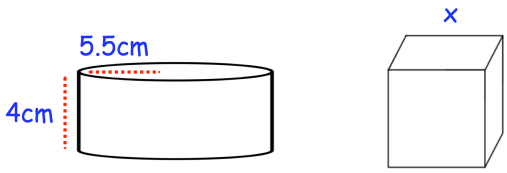
(c)



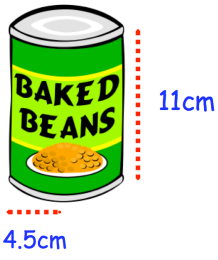
Surface area = 1040π cm^2

Apply

Question 1: The cylinder and cube below have the same surface area.
Find the side length of the cube, x.



Question 2: A can of baked beans has a paper label wrapped around the outside.
The can has a height of 11cm and radius of 4.5cm.
The label covers the entire height of the can.
The label has a 1cm overlap vertically so that it can be stuck together
Calculate the area of the label.



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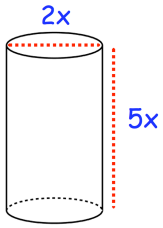
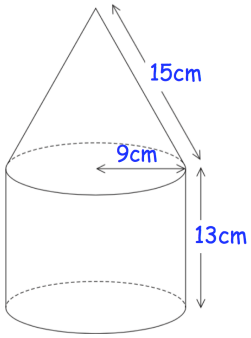
Question 3: The cylinder below has a surface area of 972π cm^2.
Find x.

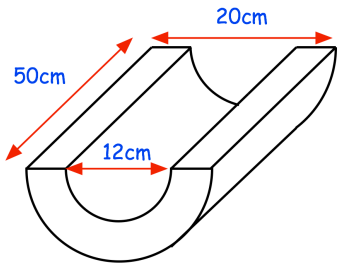


Question 4: A cylinder has a height of 18cm and volume of 1715cm^3.
Work out the surface area of the cylinder.

Question 5: A cylinder and a cone are joined together to make a solid.
The cylinder has a radius of 9cm and height of 13cm.
The cone has a slant height of 15cm.
Find the total surface area of the solid.



Question 6: Work out the surface area of the shape below.



Answers

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