

Name: _____

Exam Style Questions



Surface Area of a Cylinder

Corbettmaths

Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser

You may use tracing paper if needed

Guidance

1. Read each question carefully before you begin answering it.
2. Don't spend too long on one question.
3. Attempt every question.
4. Check your answers seem right.
5. Always show your workings

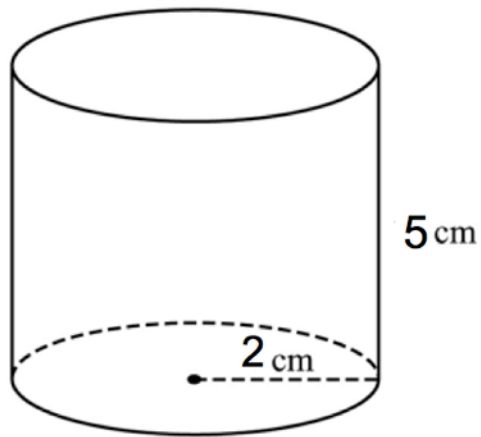
Revision for this topic

www.corbettmaths.com/contents

Video 315



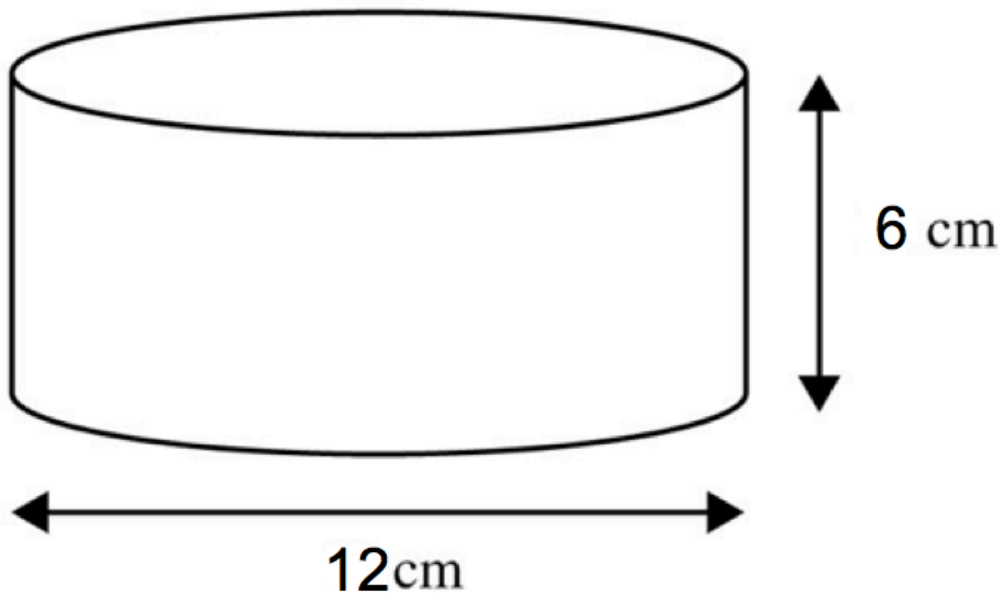
1. Below is a cylinder with radius 2cm and height 5cm.



Calculate the surface area of the cylinder.

.....cm²
(4)

2. Shown below is a cylinder.



Calculate the curved surface area.
Give your answer to 1 decimal place.

.....cm²
(2)

3. A can of baked beans has a paper label wrapped around the outside.



The can has a height of 11cm and a radius of 3.5cm.

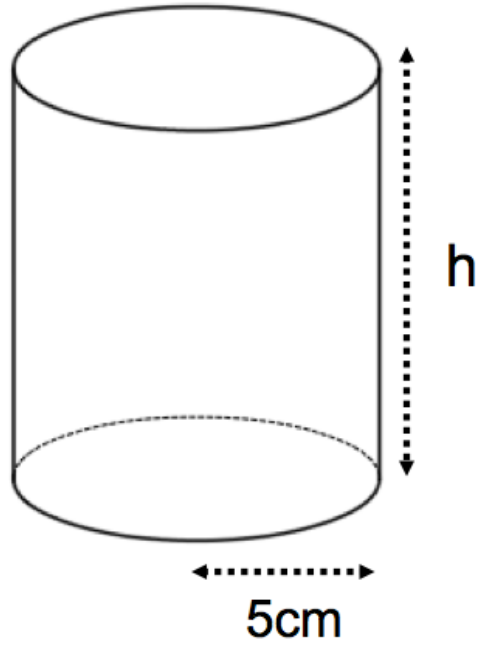
The label covers the entire height of the can.

The label has a 1cm overlap vertically so that it can be stuck together.

Calculate the area of the label.

.....cm²
(4)

4.

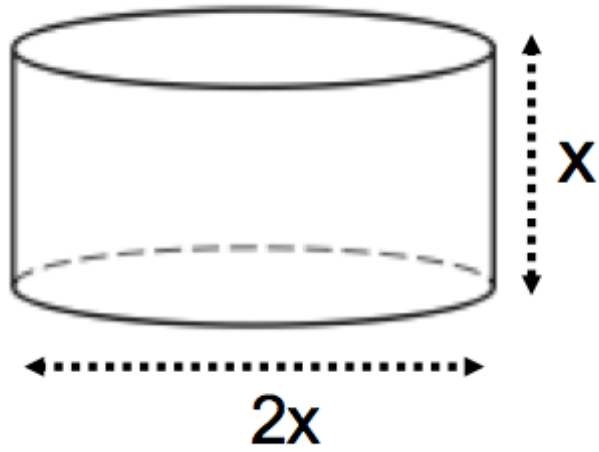


The surface area of the cylinder is $170\pi \text{ cm}^2$.

Calculate the height of the cylinder.

.....cm
(4)

5.



The cylinder above has surface area $400\pi \text{ cm}^2$

Calculate x .

.....cm
(4)

6. On a farm, there is a grain silo.
The silo is cylindrical with a tile roof.
The silo has a diameter of 8 metres and is 6 metres tall.

The farmer wants to paint the curved surface of the silo.
Each can of paint will cover 20m^2 .
The paint costs £11.75 per can.

How much will it cost the farmer to paint the silo?

£.....
(4)