# Name:_____

| GCSE (1 - 9)<br><br>Cylinders | Solutions: |
|---|---|

These questions are compiled from *released* Pearson Edexcel GCSE maths exam papers
They contain exam questions from up until the ***Summer 2023*** exam series
More recent exam papers do exist but are withheld for mock exams
As new exam papers are released these worksheets will gradually be updated
The ***most current*** version of these worksheets will always be available at: kennethstafford.co.uk

| Question | Where the question appeared |
|---|---|
| 1 | Edexcel, GCSE, Summer 2019, Paper 3F, Q29 |
| 2 | Edexcel, GCSE, November 2022, Paper 2F, Q24 |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

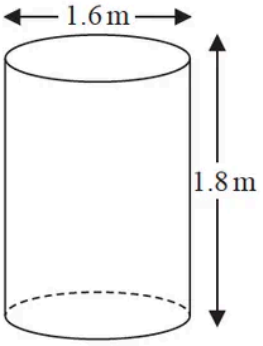
**1**

Jeremy has to cover 3 tanks completely with paint.

Each tank is in the shape of a cylinder with a top and a bottom.
The tank has a diameter of 1.6 m and a height of 1.8 m.

Jeremy has 7 tins of paint.
Each tin of paint covers 5 $m^2$

Has Jeremy got enough paint to cover completely the 3 tanks?
You must show how you get your answer.

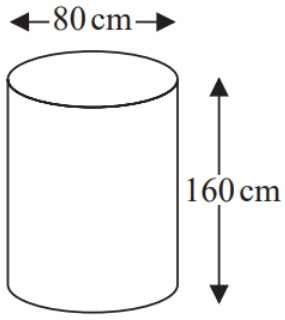



**(Total for Question 29 is 5 marks)**

*[Edexcel, GCSE, Summer 2019, Paper 3F, Q29]*

**2**

Karina has 4 tanks on her tractor.
Each tank is a cylinder with diameter 80 cm and height 160 cm.




The 4 tanks are to be filled completely with a mixture of fertiliser and water.

The fertiliser has to be mixed with water in the ratio 1 : 100 by volume.
Karina has 32 litres of fertiliser.

1 litre = 1000 $cm^3$

Has Karina enough fertiliser for the 4 tanks?
You must show how you get your answer.

**(Total for Question 24 is 4 marks)**

*[Edexcel, GCSE, November 2022, Paper 2F, Q24]*