

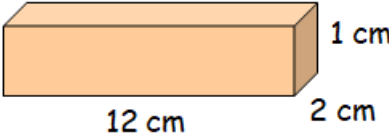

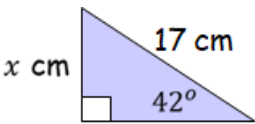












| Name:  | Date:  |
|--|--|
| <p><b>1</b> 4 waiters take 5 minutes to clear tables. How long would it take 5 waiters working at the same rate?</p>    | <p> MNU 408a Silver Outcome 1</p>   |
| <p><b>2</b> Calculate the surface area of this cuboid.</p>    | <p> MTH 411b Silver Outcome 1</p>   |
| <p><b>3</b> Calculate the length of the side marked <math>x</math> in the triangle below.</p>   | <p> MTH 416a Bronze Outcome 2</p>    |
| <p><b>4</b> The weather forecast predicts a 33 in 45 chance of rain in Scotland. It also predicts a 47 in 65 chance of rain in England. Is it more likely to rain in Scotland or England? You <b>MUST</b> give a reason for your answer!</p>  | <p> MNU 422a Gold Outcome 1</p>    |
| <p><b>5</b> On the day of a maths exam 2 pupils did not bring a pencil and 78 pupils did. What percentage of pupils forgot to bring a pencil?</p>   | <p> MNU 407a Silver Outcome 3</p>  |
| My score:  |  |



# Exam Questions

## Question 1:

Solve algebraically the inequality

$$6y - 1 < 11. \quad 2$$



MTH 415a Bronze Outcome 2

## Question 2:

The temperatures, in degrees Celsius, at noon for the first ten days in January at Invergow were:

-3   0   -2   2   -1   -4   -5   -3   1   3.

Calculate

(a) the median temperature;

2

(b) the range.

2

(c) The corresponding values of the median and the range for Abergrange are 2 °C and 5 °C respectively.

Make **two** comments comparing the temperatures in Invergow and Abergrange.

2



MTH 420b Gold Outcomes 1 & 3

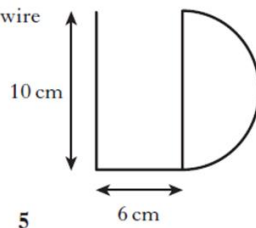
## Question 3:

Lizzie Douglas bends a length of wire into the shape of her initials.

The letter D is a semi-circle.

Calculate the total length of the wire.

Give your answer correct to the nearest centimetre.



MTH 416b Gold Outcome 1



## Question 4:

The thickness of a sheet of gold leaf is 0.000013 centimetres.

Write this number in standard form.

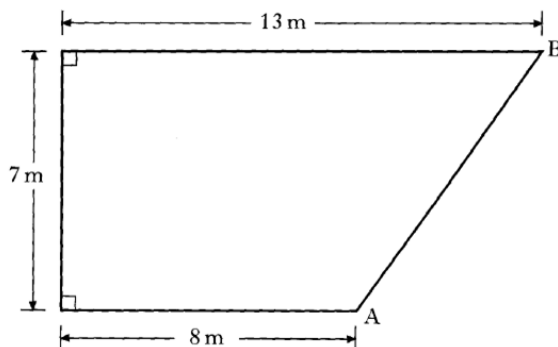
2



MTH 406b Silver Outcome 3

## Question 5:

The diagram below shows the shape of Sangita's garden. Sangita plants a hedge along side AB.



Calculate the length of the hedge.

4



MTH 416a Bronze Outcome 1



My score: