

Mock Grade 5

Maths

Booklet 1

Paper 2H
Calculator

www.ggmaths.co.uk

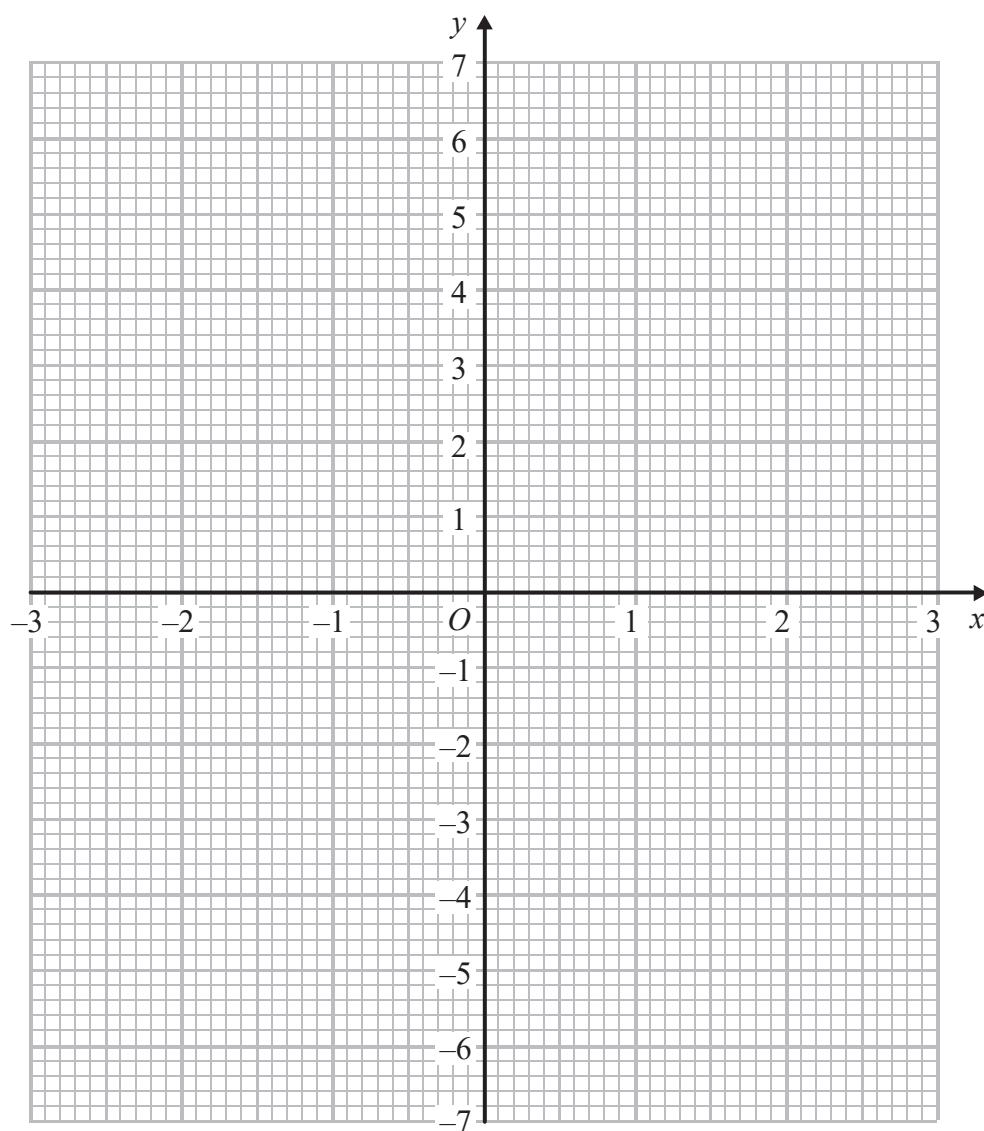
- 1 (a) Complete the table of values for $y = -x^2 + x + 6$

x	-3	-2	-1	0	1	2	3
y				6			

(2)

- (b) On the grid, draw the graph of $y = -x^2 + x + 6$ for values of x from -3 to 3

(2)



(c) Use your graph to find estimates of the solutions to the equation $-x^2 + x + 6 = 2$

.....
(2)

(Total for Question 1 is 6 marks)

2 A force of 90 newtons acts on an area of 20 cm^2

The force is increased by 10 newtons.

The area is increased by 10 cm^2

Helen says,

“The pressure decreases by less than 20%”

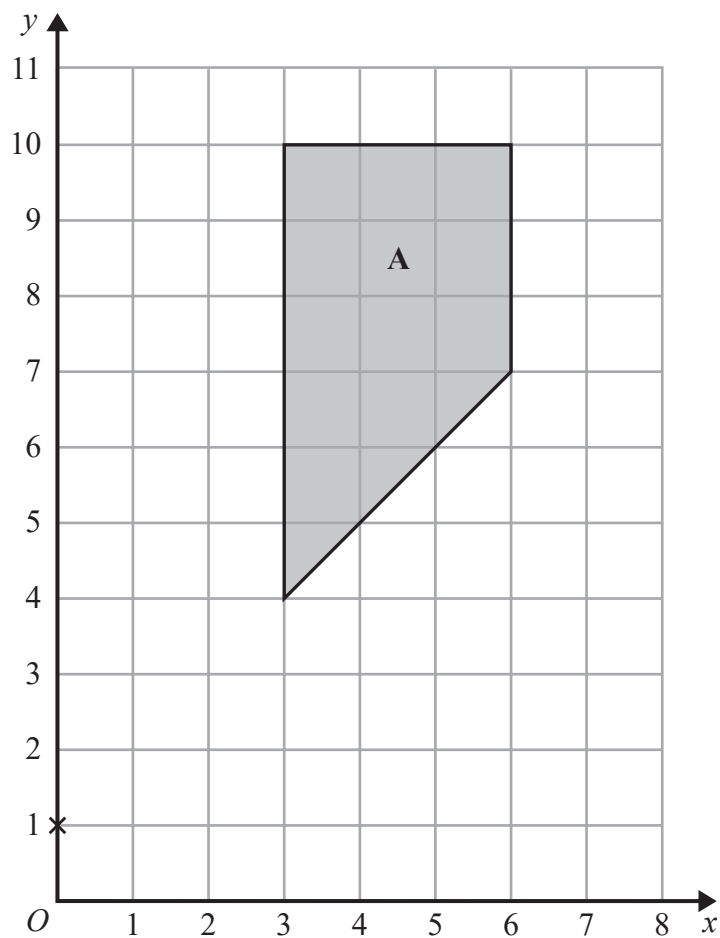
Is Helen correct?

You must show how you get your answer.

$\text{pressure} = \frac{\text{force}}{\text{area}}$
--

(Total for Question 2 is 3 marks)

3



Enlarge shape A by scale factor $\frac{1}{3}$ centre (0, 2)

(Total for Question 3 is 2 marks)

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



4 80 people were asked if they prefer to go on holiday in Britain or in Spain or in Italy.

46 of the people were male.

9 of the 28 people who said Britain were female.

16 males said Italy.

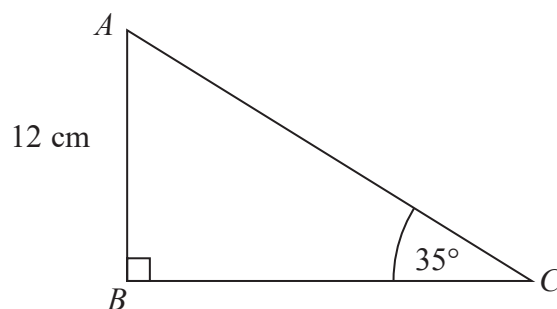
23 people said Spain.

One of the females is chosen at random.

What is the probability that this female said Spain?

.....
(Total for Question 4 is 4 marks)

- 5 ABC is a right-angled triangle.



Calculate the length of AC .
Give your answer correct to 2 decimal places.

.....cm

(Total for Question 5 is 2 marks)

- 6 Sally used her calculator to work out the value of a number y .

The answer on her calculator display began

9.6

Complete the error interval for y .

..... $\leq y <$

(Total for Question 6 is 2 marks)



7 £684 is shared between Abby, Ben, Chloe and Denesh.

The ratio of the amount Abby gets to the amount Ben gets is 4:3

Chloe and Denesh each get 1.5 times the amount Abby gets.

Work out the amount of money that Ben gets.

£.....

(Total for Question 7 is 4 marks)

8 (a) Write 0.000667 in standard form.

.....
(1)

(b) Write 4.258×10^5 as an ordinary number.

.....
(1)

(Total for Question 8 is 2 marks)