

Mock Grade 4

Maths

Booklet 2

Paper 3H
Calculator

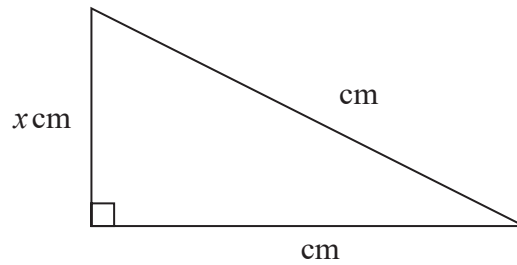
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Answer ALL questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

- 1** Here is a right-angled triangle.



Work out the value of x .

$x = \dots\dots\dots$

(Total for Question 1 is 2 marks)

2 $A = 2j - jk$

(a) Work out the value of A when $j = 7$ and $k = 3$

$A = \dots\dots\dots$
(2)

(b) Make p the subject of the formula $2d = 8p + 3$

$\dots\dots\dots$
(2)

(Total for Question 2 is 4 marks)

3 Rick, Selma and Tony are playing a game with counters.

Rick has some counters.

Selma has three times as many counters as Rick.

Tony has 8 counters less than Selma.

In total they have 83 counters.

the number of counters Rick has : the number of counters Tony has = 1 : p

Work out the value of p .

$p = \dots\dots\dots$

(Total for Question 3 is 5 marks)

4 Jo is going to buy 36 rolls of wallpaper.

Here is some information about the cost of rolls of wallpaper from each of two shops.

Chic Decor

9 rolls for £25

Style Papers

Pack of 6 rolls
normal price £19

12% off the normal price

Jo wants to buy the 36 rolls of wallpaper as cheaply as possible.

Should Jo buy the wallpaper from Chic Decor or from Style Papers?

You must show how you get your answer.

(Total for Question 4 is 4 marks)

- 5 (a) Write 8655.36 correct to 2 significant figures.

.....
(1)

(b) Work out $\frac{12.74 + \sqrt{9.5}}{6.04 \times 4.1}$

Write down all the figures on your calculator display.

.....
(2)

(Total for Question 5 is 3 marks)

- 6 Last year Jo paid £368 for her car insurance.
This year she has to pay £581 for her car insurance.

Work out the percentage increase in the cost of her car insurance.

.....%

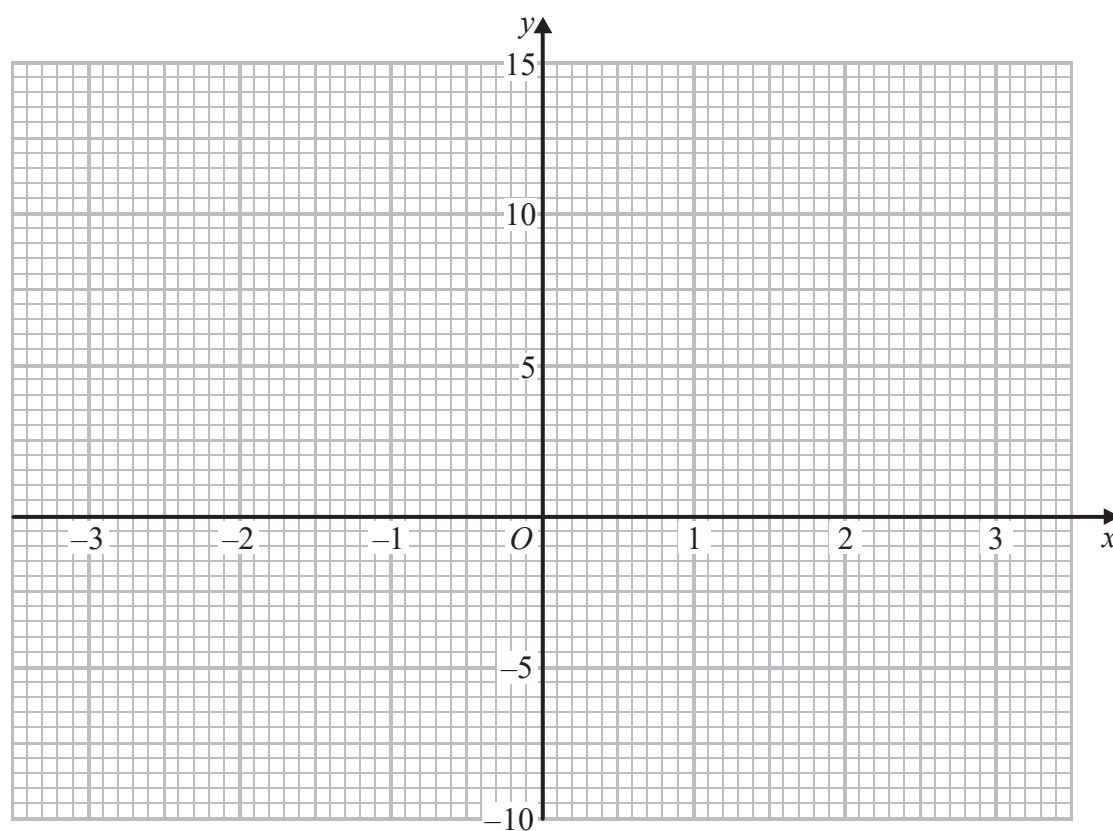
(Total for Question 6 is 3 marks)

7 (a) Complete this table of values for $y = x^2 + 3x - 7$

x	-3	-2	-1	0	1	2	3
y		-9			-3		

(2)

(b) On the grid, draw the graph of $y = x^2 + 3x - 7$ for values of x from -3 to 3



(2)

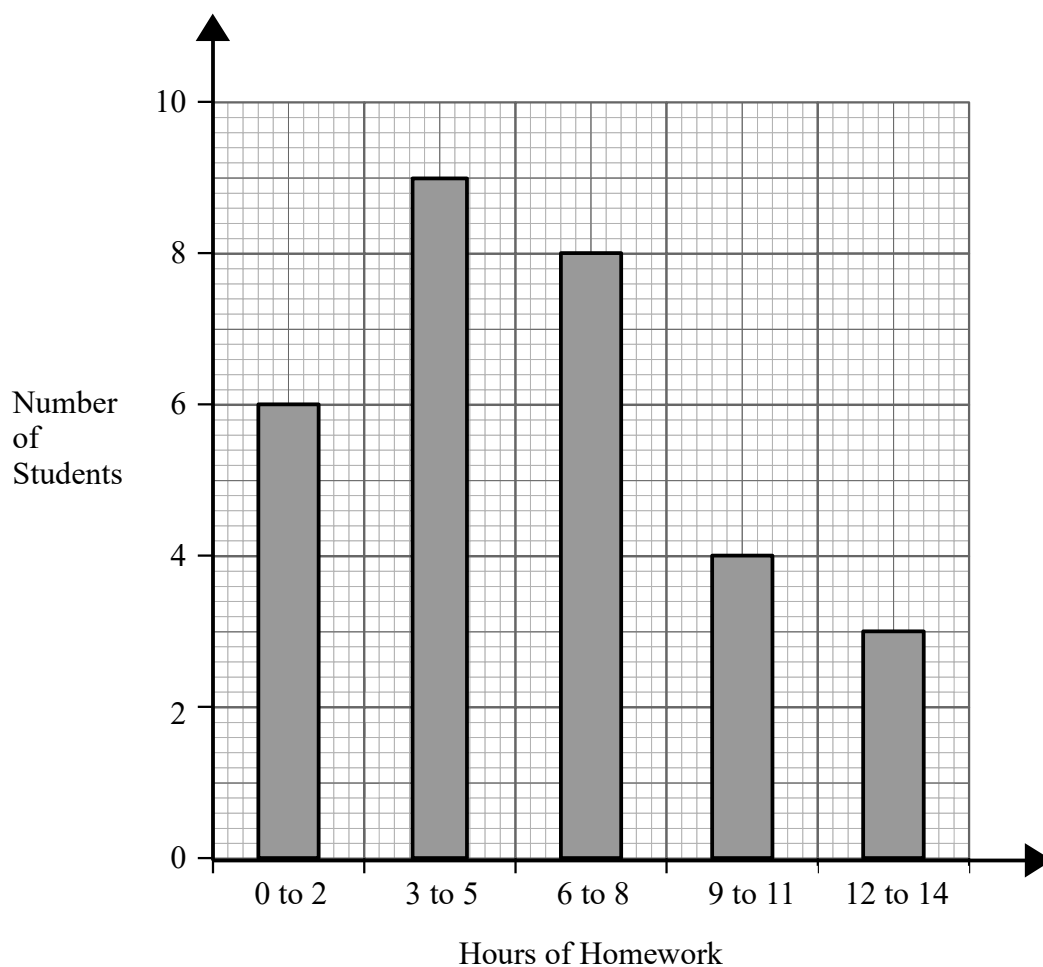
(c) Use the graph to estimate a solution to $x^2 + 3x - 7 = 0$

(1)

(Total for Question 7 is 5 marks)

8 Fran asks each of 30 students how many hours they spent on their homework last week.

The bar chart shows how many hours of homework 30 students did last week.



(a) Work out the percentage of these students who did 9 or more hours.

..... %
(2)

- (b) Show that an estimate for the mean number of hours is 5.9
You must show all your working.

(4)

(Total for Question 8 is 6 marks)
