

Mock Grade 4

Maths

Booklet 2

Paper 1H

Non-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.

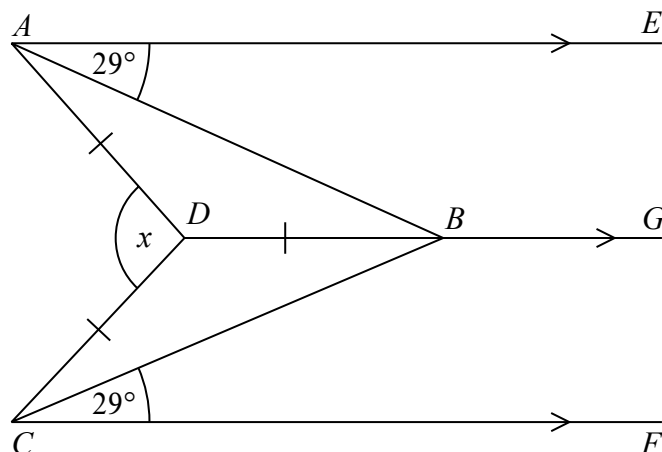
1 Work out 7.89×3.6

.....
(Total for Question 1 is 3 marks)

2 Expand and simplify $(m - 6)(m - 8)$

.....
(Total for Question 2 is 2 marks)

3



AE , DBG and CF are parallel.

$DA = DB = DC$.

Angle $EAB = \text{angle } BCF = 29^\circ$

Work out the size of the angle marked x .

You must show your working.

(Total for Question 3 is 3 marks)

- 4 Gary drove from London to Sheffield.
It took him 4 hours at an average speed of 85 km/h.

Lyn drove from London to Sheffield.
She took 5 hours.

Assuming that Lyn
drove along the same roads as Gary
and did not take a break,

- (a) work out Lyn's average speed from London to Sheffield.

.....km/h
(3)

- (b) If Lyn did **not** drive along the same roads as Gary, explain how this could affect your answer to part (a).

.....
.....
(1)

(Total for Question 4 is 4 marks)

5 (a) Factorise $y^2 - 36y$

.....
(1)

(b) Simplify $(t^4)^5$

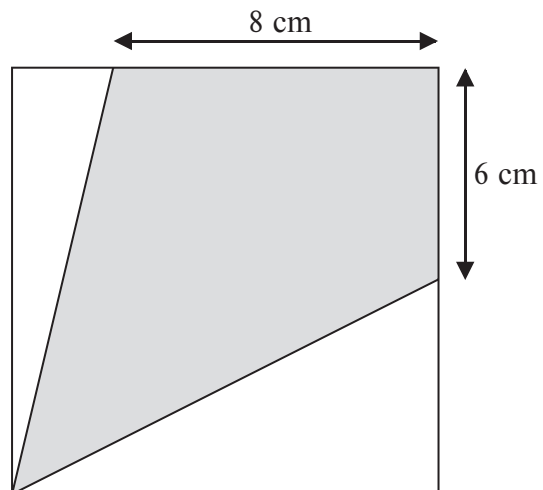
.....
(1)

(c) Simplify $\frac{w^{10}}{w^3}$

.....
(1)

(Total for Question 5 is 3 marks)

- 6 The diagram shows a square with perimeter 48 cm.



Work out the proportion of the area inside the square that is shaded.

(Total for Question 6 is 5 marks)

7 Triangle ABC has perimeter 24 cm.

$$AB = 11 \text{ cm.}$$

$$BC = 6 \text{ cm.}$$

By calculation, deduce whether triangle ABC is a right-angled triangle.

(Total for Question 7 is 4 marks)

8 One sheet of A3 card has area $\frac{1}{6} \text{ m}^2$.

The card has a mass of 240 g per m^2 .

Work out the total mass of 20 sheets of A3 card.

(Total for Question 8 is 4 marks)