GCSE 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 6.34×5.2

.....

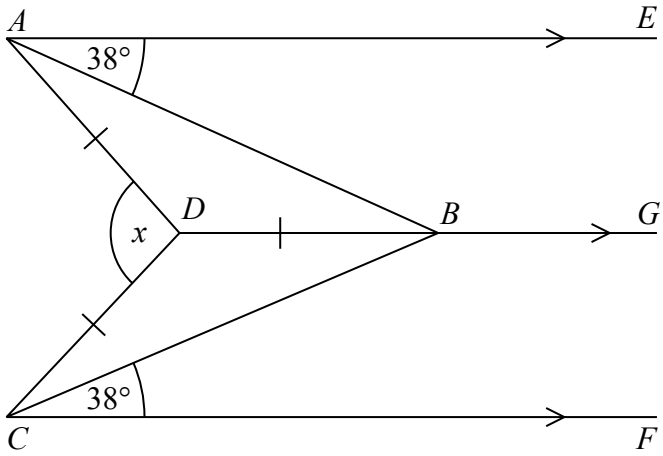
(Total for Question 1 is 3 marks)

2 Expand and simplify $(m + 7)(m + 3)$

.....

(Total for Question 2 is 2 marks)

3



AE, *DBG* and *CF* are parallel.
DA = *DB* = *DC*.
Angle *EAB* = angle *BCF* = 38°

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 3 hours at an average speed of 80 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)

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5 (a) Factorise $y^2 + 27y$

.....

(1)

(b) Simplify $(t^3)^2$

.....

(1)

(c) Simplify $\frac{w^9}{w^4}$

.....

(1)

(Total for Question 5 is 3 marks)

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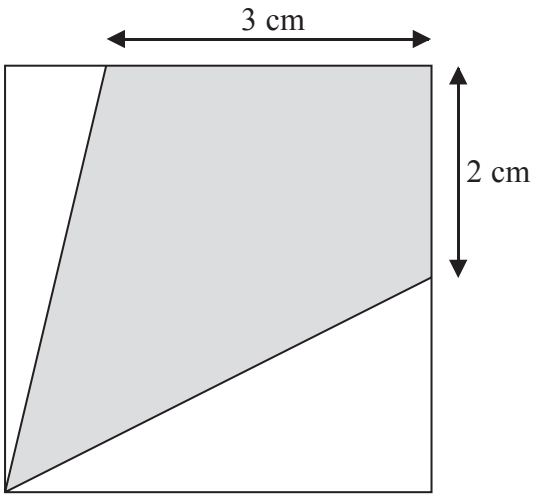
6 The diagram shows a square with perimeter 16 cm.



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 20 cm.

$AB = 7$ cm.
$BC = 4$ 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 $\frac{1}{8}$ m^2.
The card has a mass of 160 g per m^2.

Work out the total mass of 25 sheets of A3 card.

(Total for Question 8 is 4 marks)