

Silver Level

Question Paper 3

Level	IGCSE
Subject	Maths
Exam Board	Edexcel
Difficulty Level	Silver
Booklet	Question Paper 3

Time Allowed: 60 minutes

Score: /50

Percentage: /100

Grade Boundaries:

9	8	7	6	5	4	3	2	1
>90%	80%	70%	60%	50%	40%	30%	20%	<20%

1

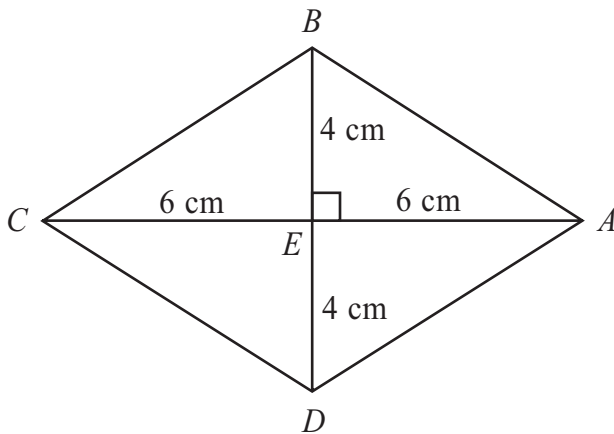


Diagram **NOT**
accurately drawn

$ABCD$ is a rhombus.

The diagonals AC and BD cross at the point E .

$AE = CE = 6$ cm.

$BE = DE = 4$ cm.

Angle $AEB = 90^\circ$

(a) Work out the area of the rhombus.

..... cm²
(3)

(b) Work out the length of AB .

Give your answer correct to 3 significant figures.

..... cm
(3)

(Total for Question 1 is 6 marks)

2 (i) Solve the inequalities $-6 < 4x \leq 8$

.....

(ii) n is an integer.

Write down all the values of n which satisfy $-6 < 4n \leq 8$

.....

(Total for Question 2 is 4 marks)

3 (a) Find the Highest Common Factor (HCF) of 75 and 90

.....

(2)

(b) Find the Lowest Common Multiple (LCM) of 75 and 90

.....

(2)

(Total for Question 3 is 4 marks)

4 (a) Find the gradient of the line with equation $3x + 4y = 10$

.....
(3)

(b) Find the coordinates of the point of intersection of the line with equation $3x + 4y = 10$
and the line with equation $5x - 6y = 23$
Show your working clearly.

(..... ,)
(5)

(Total for Question 4 is 8 marks)

5 Solve the inequality $x^2 < 16$

.....
(Total for Question 5 is 2 marks)

6 (a) Write $2^3 \times 2^6$ as a single power of 2

.....
(1)

(b) Write $\frac{3^9}{3^4}$ as a single power of 3

.....
(1)

(c) $\frac{5^n}{5^4 \times 5^6} = 5^3$

Find the value of n .

$n =$
(2)

(Total for Question 6 is 4 marks)

- 7 (a) Solve $3(2x - 1) = 6$
Show clear algebraic working.

$x = \dots\dots\dots$
(3)

(b) Solve $\frac{2y + 1}{3} = \frac{y - 2}{4}$

Show clear algebraic working.

$y = \dots\dots\dots$
(4)

(Total for Question 7 is 7 marks)

- 8 The table shows information about the number of peas in each of 25 pods.

Number of peas	1	2	3	4	5	6
Number of pods	3	6	5	8	2	1



- (a) Work out the mean number of peas in the 25 pods.

$\dots\dots\dots$
(3)

- (b) Tariq puts the 25 pods in a bag.
He takes at random one of the pods.

Find the probability that he takes a pod with 3 peas or a pod with 4 peas.

.....
(2)

- (c) Laila puts the 25 pods in a bag.
She takes at random two pods without replacement.

Calculate the probability that

- (i) there are 3 peas in each of the two pods she takes,

-
(ii) there is a total of 4 peas in the two pods she takes.

.....
(5)

(Total for Question 8 is 10 marks)

- 9 (a) The equation of a line **L** is $2x - 3y = 6$
Find the gradient of **L**.

.....
(3)

- (b) Find the equation of the line which is parallel to **L** and passes through the point (6, 9).

.....
(2)

(Total for Question 9 is 5 marks)
