

Silver Level

Question Paper 2

Level	IGCSE
Subject	Maths
Exam Board	Edexcel
Difficulty Level	Silver
Booklet	Question Paper 2

Time Allowed: 56 minutes

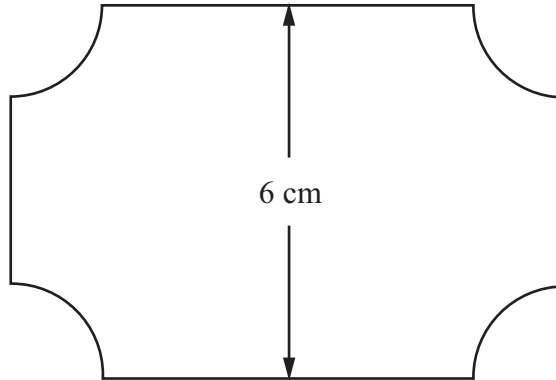
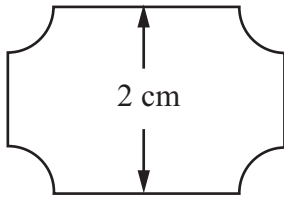
Score: /46

Percentage: /100

Grade Boundaries:

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

1 Here are two supermarket price tickets.



Diagrams **NOT** accurately drawn

The two supermarket price tickets are mathematically similar.

The area of the smaller ticket is 7 cm^2 .

Calculate the area of the larger ticket.

..... cm^2

(Total for Question 1 is 2 marks)

2 (a) Simplify $\frac{8(x-3)^2}{4(x-3)}$

.....
(2)

(b) Factorise $a^2 - 144$

.....
(2)

(c) Make q the subject of the formula $p = \sqrt{q} - 5r$

$q =$
(2)

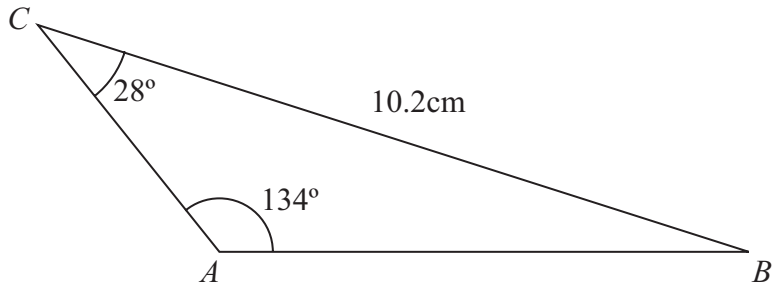
(d) Solve $\frac{4}{y-4} = 5$

$y =$
(3)

(Total for Question 2 is 9 marks)

3 The diagram shows triangle ABC .

Diagram **NOT**
accurately drawn



Angle $BCA = 28^\circ$
Angle $CAB = 134^\circ$
 $BC = 10.2$ cm.

Calculate the length of AB .
Give your answer correct to 3 significant figures.

..... cm

(Total for Question 3 is 3 marks)

4

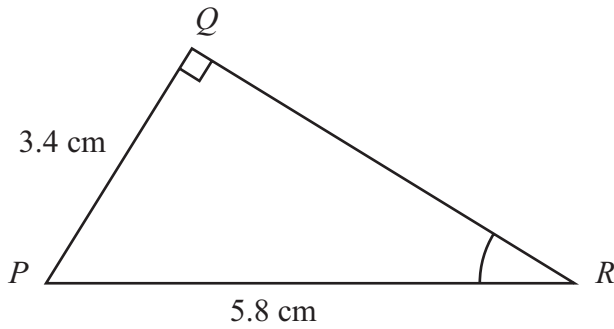


Diagram **NOT** accurately drawn

Triangle PQR has a right angle at Q .

$PQ = 3.4$ cm and $PR = 5.8$ cm.

- (a) Work out the size of angle QRP .
Give your answer correct to 1 decimal place.

.....
.....
(3)

The length 5.8 cm, of PR , is correct to 2 significant figures.

- (b) (i) Write down the upper bound of the length of PR .

..... cm

- (ii) Write down the lower bound of the length of PR .

..... cm
(2)

(Total for Question 4 is 5 marks)

- 5 A bank pays compound interest of 6% per annum on its savings accounts.
Julia invests \$7500 for 3 years.

Calculate the total interest gained after 3 years.

\$

(Total for Question 5 is 3 marks)

- 6 Make y the subject of $3(y + 2x - 1) = x + 5y$

$y =$

(Total for Question 6 is 3 marks)

7 $ABCD$ and $APQR$ are two similar quadrilaterals.

- $PQ = 9$ cm.
- $BC = 6$ cm.
- $AD = 5$ cm.
- $QR = 12$ cm.

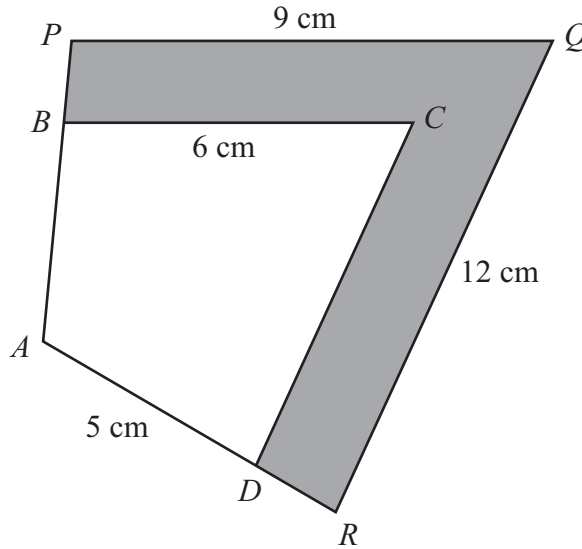


Diagram **NOT** accurately drawn

(a) Find the length of DC .

..... cm
(2)

(b) Find the length of AR .

..... cm
(2)

The area of the quadrilateral $ABCD$ is 32 cm².

(c) Calculate the area of the shaded region.

..... cm²
(3)

8

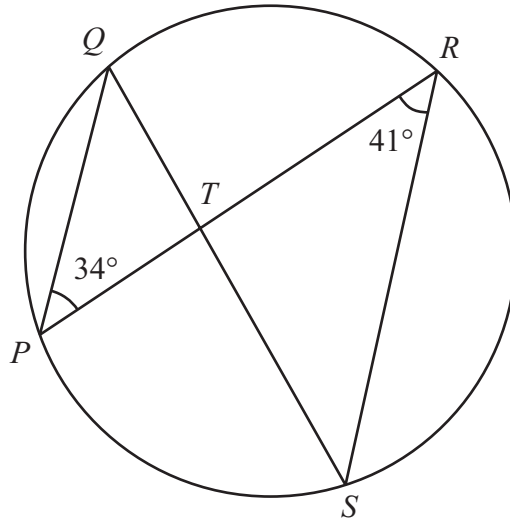


Diagram **NOT** accurately drawn

P, Q, R and S are points on the circumference of a circle.
 PR and QS intersect at T .
 Angle $QPR = 34^\circ$ and angle $PRS = 41^\circ$

(a) (i) Find the size of angle PQS .

.....^o

(ii) Give a reason for your answer.

.....

(2)

(b) (i) Find the size of angle PTS .

.....^o

(ii) Explain why T cannot be the centre of the circle.

.....

(2)

(Total for Question 8 is 4 marks)

- 9 (a) There are 32 students in a class.
All the students are either left-handed or right-handed.
The ratio of the number of left-handed students to the number of right-handed students is 1 : 7

Work out the number of right-handed students.

.....
(2)

- (b) Sajid makes a scale model of a lorry.
He uses a scale of 1 : 32
The length of Sajid's model lorry is 45 cm.
Chitra makes a scale model of the same lorry.
She uses a scale of 1 : 72

Work out the length of Chitra's model lorry.

..... cm
(3)

(Total for Question 9 is 5 marks)

10 Express 200 as a product of powers of its prime factors.

.....

(Total for Question 10 is 3 marks)

11 $y^3 \times y^n = y^6$
 y

Find the value of n .

$n =$

(Total for Question 11 is 2 marks)
