

# Silver Level

## Question Paper 2

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

**Time Allowed:** 56 minutes

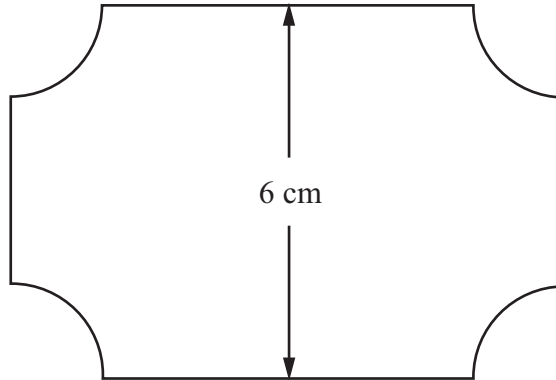
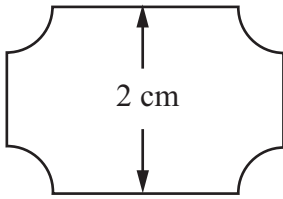
**Score:** /46

**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  $7 \text{ cm}^2$ .

Calculate the area of the larger ticket.

.....  $\text{cm}^2$

**(Total for Question 1 is 2 marks)**

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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  $\frac{4}{y-4} = 5$

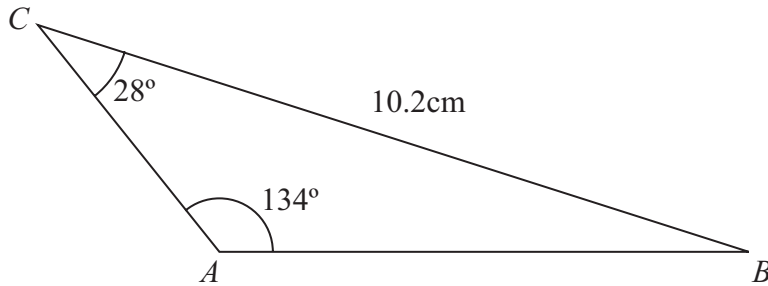
$y =$  .....  
(3)

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(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

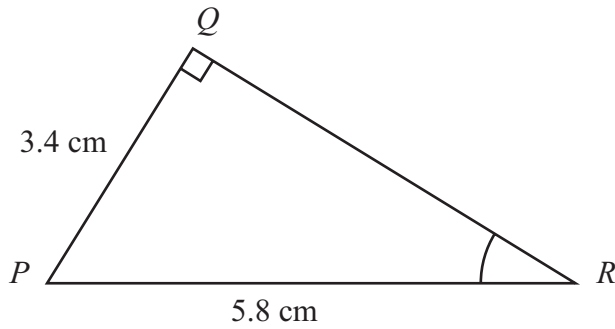


Diagram **NOT** accurately drawn

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)

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- 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.

\$ .....

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**(Total for Question 5 is 3 marks)**

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

$y =$  .....

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**(Total for Question 6 is 3 marks)**

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

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

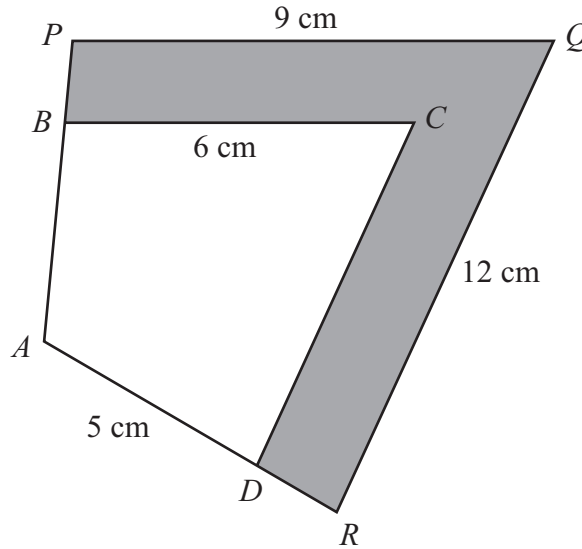


Diagram **NOT** accurately drawn

(a) Find the length of  $DC$ .

..... cm  
(2)

(b) Find the length of  $AR$ .

..... cm  
(2)

The area of the quadrilateral  $ABCD$  is  $32$  cm<sup>2</sup>.

(c) Calculate the area of the shaded region.

..... cm<sup>2</sup>  
(3)

8

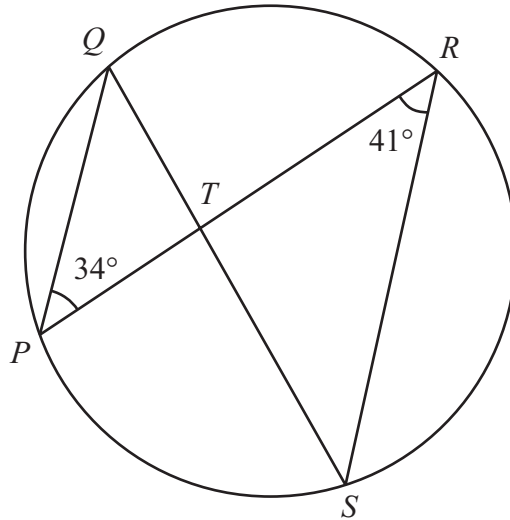


Diagram **NOT** accurately drawn

$P, Q, R$  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  $PQS$ .

.....<sup>o</sup>

(ii) Give a reason for your answer.

.....  
 .....

(2)

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

.....<sup>o</sup>

(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)

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**(Total for Question 9 is 5 marks)**

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

.....

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**(Total for Question 10 is 3 marks)**

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

Find the value of  $n$ .

$n =$  .....

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**(Total for Question 11 is 2 marks)**

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