



Class Maths

Video Solutions



PRACTICE PAPER FOR



AQA Paper 1H (June 2025)



----- Disclaimer -----

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The best way to prepare for the exams is to **revise all topics**.

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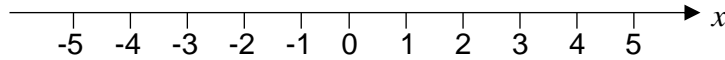


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4 (a) Solve $2x + 4 > -2$ [2 marks]

Answer _____

4 (b) Represent your answer to part (a) on the number line below. [2 marks]



5 A linear sequence starts
2 2.5 3 3.5 4 ...

Work out an expression for the n th term of the sequence. [2 marks]

Answer _____

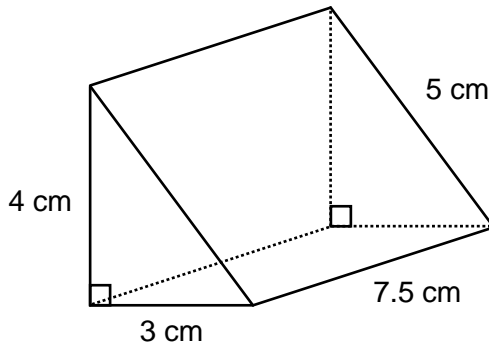
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6 The cross section of a prism is a right-angled triangle.



Not drawn accurately

Work out the volume of the prism.

[3 marks]

Answer _____ cm^3

7 The mass of a banana is 120 g correct to the nearest 10 grams. Complete the error interval for the mass of the banana.

[2 marks]

_____ g \leq mass < _____ g





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8 Serena selects four different prime numbers less than 30.

The median of her four prime numbers is 15.

The range of her four prime numbers is 12.

Work out a possible set of prime numbers that Serena could have selected.

[3 marks]

Answer _____ , _____ , _____ , _____

9 Write the following in order of size.
Start with the smallest.

0.3^2

0.5^0

2^{-2}

5^{-1}

[3 marks]

Smallest _____

Largest _____

Turn over ►





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10 Here is a full bottle of drink and an empty cup.

Bottle



Capacity $2\frac{1}{3}$ litres

Cup



Capacity $\frac{1}{4}$ litre

Lydia pours drink from the full bottle to fill 7 empty cups.

Work out how much drink is left in the bottle.

[3 marks]

Answer _____ litres





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11 Peter, Ray and Winston share some money.

Peter receives 40% of the money.

Ray's money : Winston's money = 1 : 3

Work out Peter's money : Ray's money : Winston's money

Give your answer in its simplest form.

[3 marks]

Answer _____ : _____ : _____

Turn over ►





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12 $x = 3.6 \times 10^{-3}$
 $y = 5 \times 10^2$

12 (a) Work out the value of $2x$
Give your answer as an ordinary number. [2 marks]

Answer _____

12 (b) Work out the value of y^3
Give your answer in standard form. [3 marks]

Answer _____

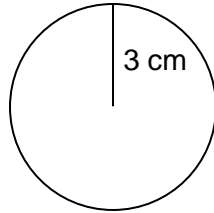




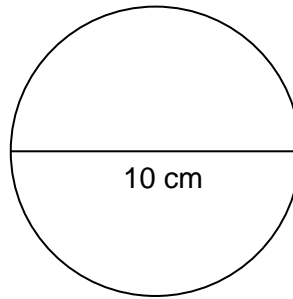
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13

The radius of **circle A** = 3 cm
The diameter of **circle B** = 10 cm



circle A



circle B

Express the area of **circle A** as a percentage of the area of **circle B**. [3 marks]

Answer _____ %

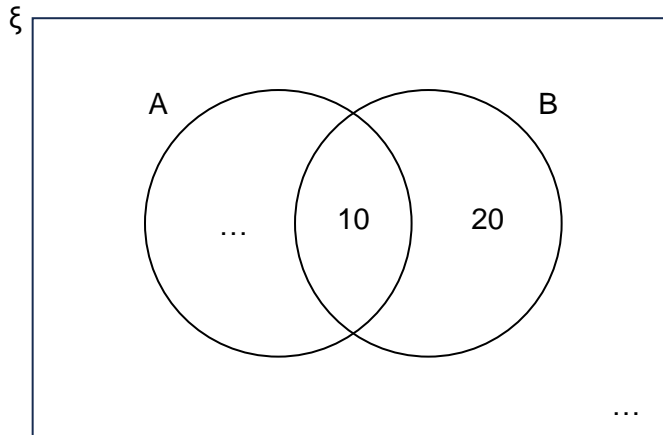
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14 The incomplete Venn diagram below represents 50 items.



For each of the following statements, tick the correct box.

[4 marks]

	Must be true	Could be true	Cannot be true
$P(A) = \frac{30}{50}$	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
$P(B) = \frac{20}{50}$	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
$P(A \cap B) = \frac{10}{50}$	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
$P(A \cup B) = \frac{30}{50}$	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>





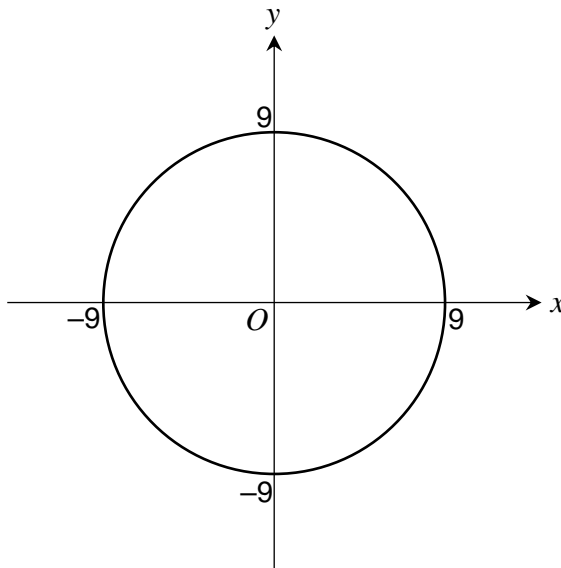
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15 Solve $(3x + 1)(2x - 5) = 0$

[2 marks]

Answer _____

16 A circle, centre O , passes through $(9, 0)$



Write down the equation of the circle.

[1 mark]

Answer _____

$\frac{7}{7}$

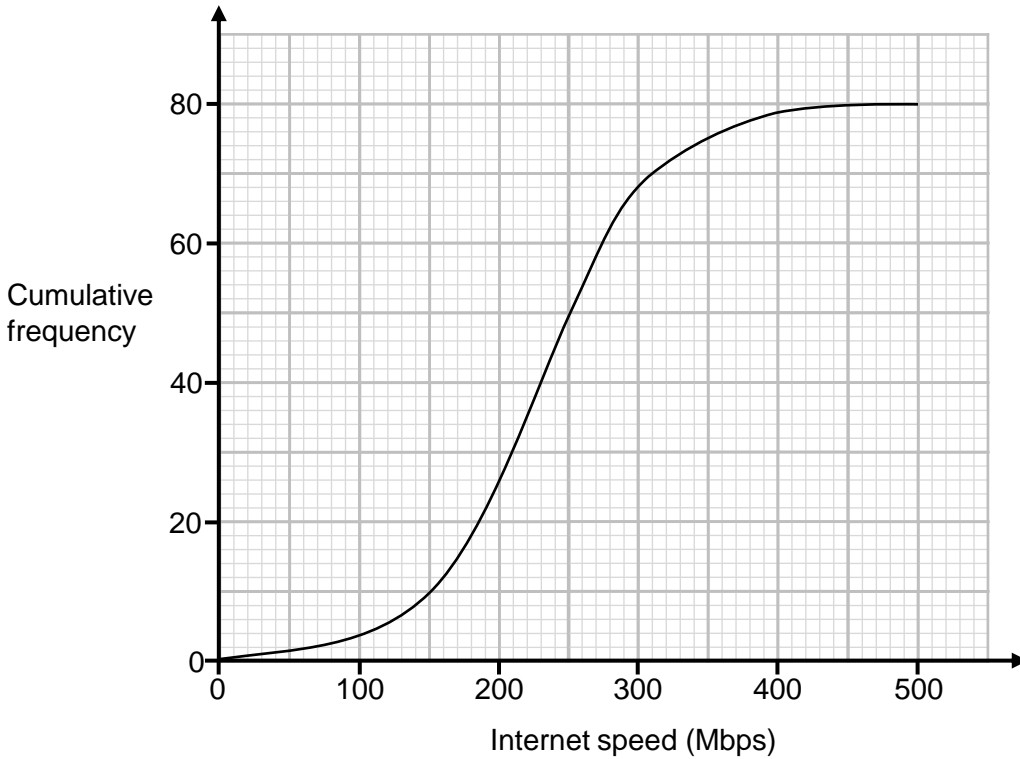
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17 The cumulative frequency diagram shows information about the internet speeds of a sample of 80 customers from an internet service provider.



17 (a) Use your graph to estimate the median internet speed. [1 mark]

Answer _____ Mbps

17 (b) Use your graph to estimate the inter quartile range of the internet speeds. [2 marks]

Answer _____ Mbps



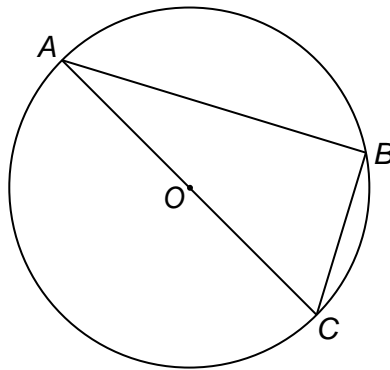


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17 (c) Work out the percentage of the customers sampled that have an internet speed over 300 Mbps. [2 marks]

Answer _____ %

18 A, B, and C are points on a circle, centre O.



Write down the size of angle ABC. [1 mark]

Answer _____ degrees

6

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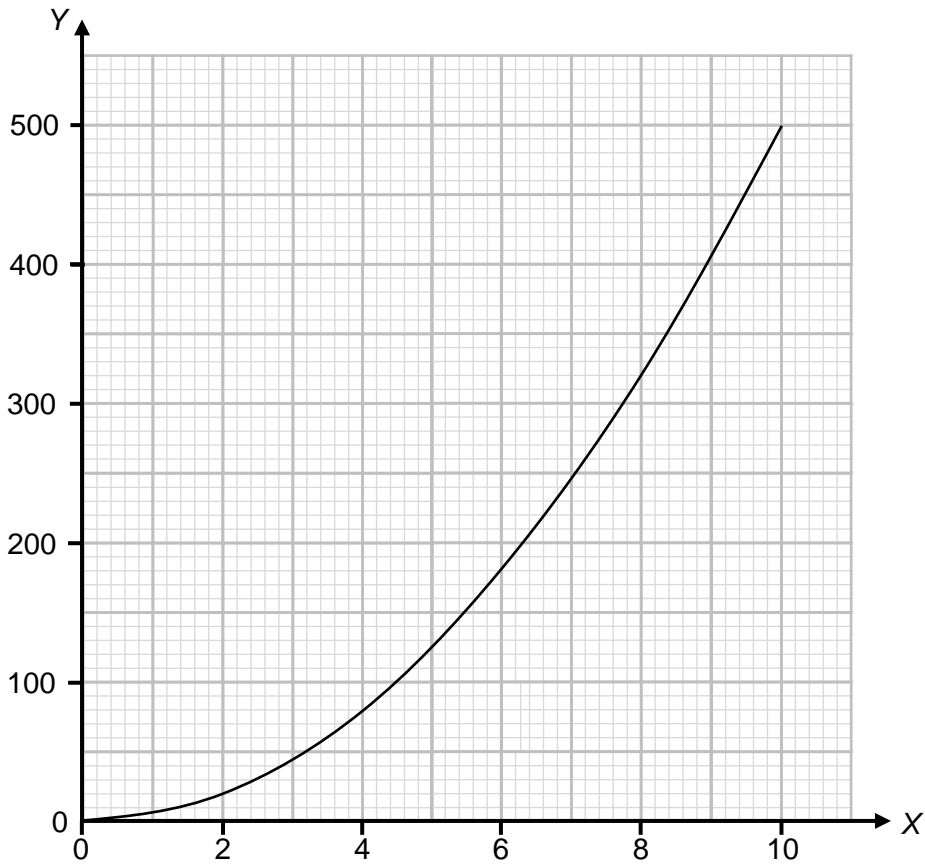




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19

Y is directly proportional to the square of X.
The graph below shows Y plotted against X.



19 (a) Work out an equation connecting Y and X.

[3 marks]

Answer _____





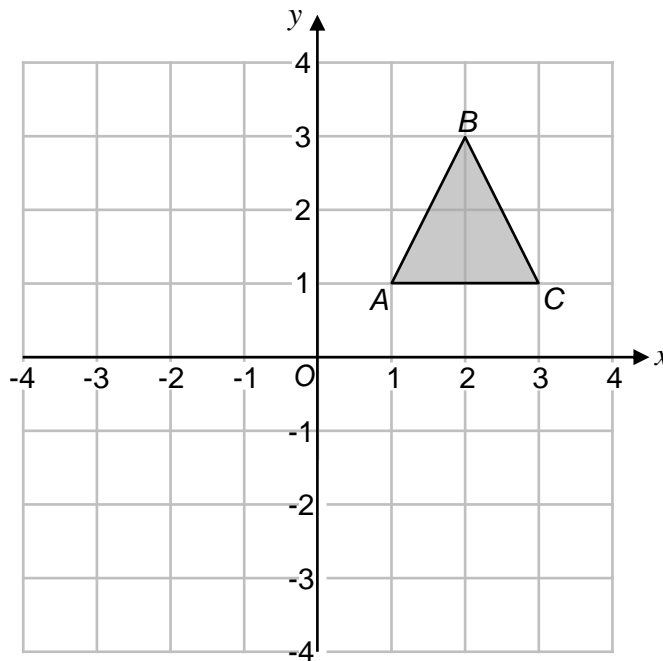
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19 (b) Work out the value of Y when $X = 20$

[2 marks]

Answer _____

20



Triangle ABC is reflected in the line $x = 1$

How many of the vertices of Triangle ABC are invariant?
Circle your answer.

- 0 1 2 3

$\frac{\quad}{6}$

Turn over ►





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21 $4^x = \sqrt{2}$ $\left(\frac{2}{3}\right)^y = 1.5$

Work out the values of x and y .

[4 marks]

$x =$ _____ $y =$ _____

22 Convert $0.\dot{7}2$ to a fraction.

Give your answer in its simplest form.

[3 marks]

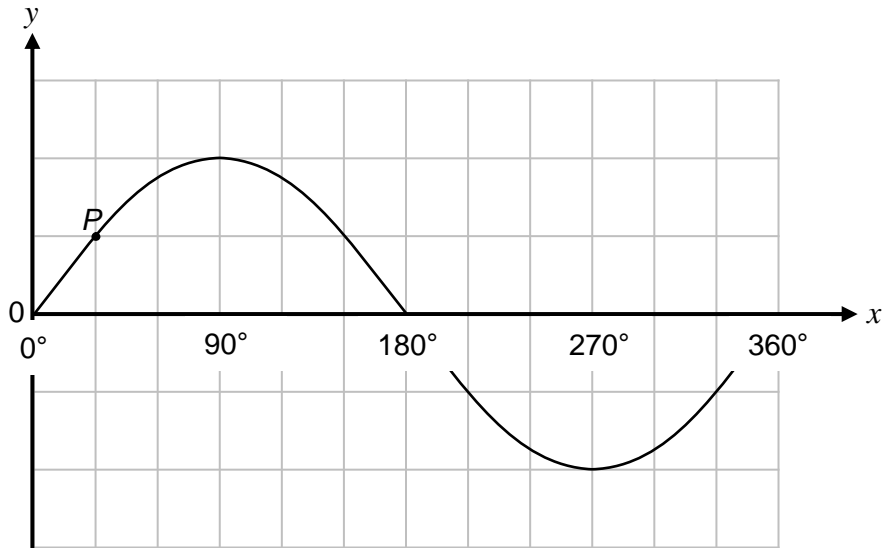
Answer _____





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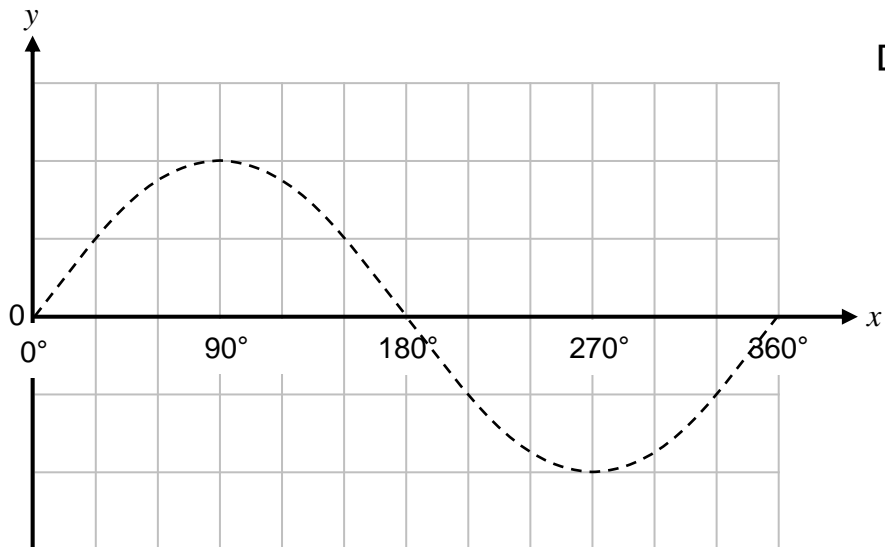
23 Here is the graph of $y = \sin x$ for $0^\circ \leq x \leq 360^\circ$



23 (a) Write down the coordinates of P . [1 mark]

Answer (_____ , _____)

23 (b) On the grid below the graph of $y = \sin x$ is shown as a dashed line. Sketch the graph of $y = \sin(x - 60^\circ)$ for $0^\circ \leq x \leq 360^\circ$ onto the grid below.



[1 mark]

9

Turn over ▶



