1st Class Maths

Video Solutions

SCAN ME

PRACTICE PAPER FOR

AQA Paper 1H (June 2026)

Disclaimer

This paper has been created based on some of the common paper 1 topics from previous years. The paper should be excellent at helping students revise for exams, however it should not be relied upon as the basis for revision. The topics from this paper may well appear in the real exams, however there is absolutely no guarantee of this. Some topics may appear, some may not. Despite what you might see on social media it is not possible to "predict" the paper. This is usually what people say when they are selling you something…

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

You can find a link to this paper and more completely free resources at www.1stclassmaths.com

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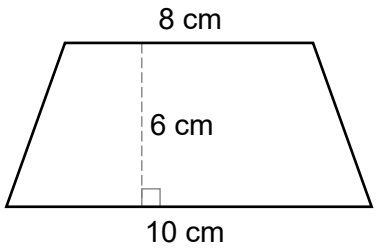
Answer **all** questions in the spaces provided.

1



Not drawn accurately

Work out the area of the trapezium **[2 marks]**

Answer _____ cm^2

2 Expand and simplify $3x(4 - x) + 8x^2$ **[2 marks]**

Answer _____

Do not write outside the box

3 By rounding to one significant figure, estimate the value of 0.2013^4 **[3 marks]**

Answer _____

4 Increase $\frac{1}{4}$ by 20%

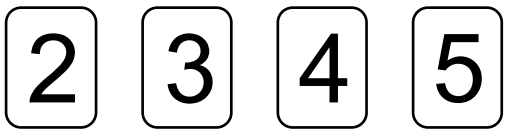
Give your answer as a decimal. **[3 marks]**

Answer _____

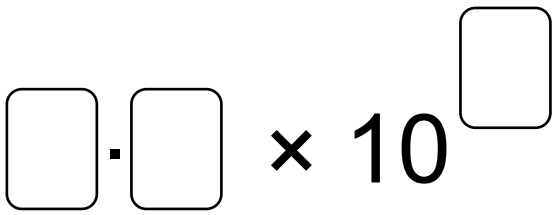
10

Do not write outside the box

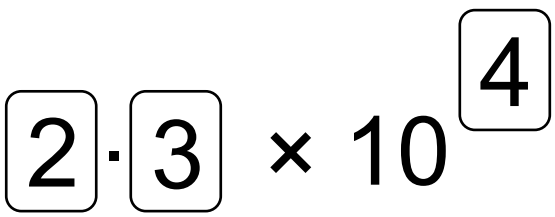
5 Here are four numbered cards.



Students are asked to use **three** of the cards to make a number in standard form using the layout below.



5 (a) Jill uses makes the following number.



Write the number that Jill made as an ordinary number. **[1 mark]**

Answer _____

Do not write outside the box

5 (b) Oliver makes the largest number possible using three of the cards.

Write numbers in the boxes below to show Oliver's number. **[1 mark]**

$$\square.\square \times 10^{\square}$$

5 (c) Charlotte makes the number that is as close as possible to 3000 using three of the cards.

Write numbers in the boxes below to show Charlotte's number. **[1 mark]**

$$\square.\square \times 10^{\square}$$

3

Do not write outside the box

6 Write $3\frac{1}{3} : \frac{2}{3}$ in the form $n : 1$ **[2 marks]**

Answer _____ : 1

7 x and y are integers

$x < 11$ and $-5 \leq y < 4$

7 (a) Write down the largest possible value of x **[1 mark]**

Answer _____

7 (b) Work out the largest possible value of y^2 **[2 marks]**

Answer _____

Do not write outside the box

8 A bag contains 30 counters that are either red or blue.

number of red counters : number of blue counters = n : 1

n is an integer greater than 1.

Work out all the possible values for n. **[3 marks]**

Answer _____

9 The nth term of a linear sequence is $6n - 1$

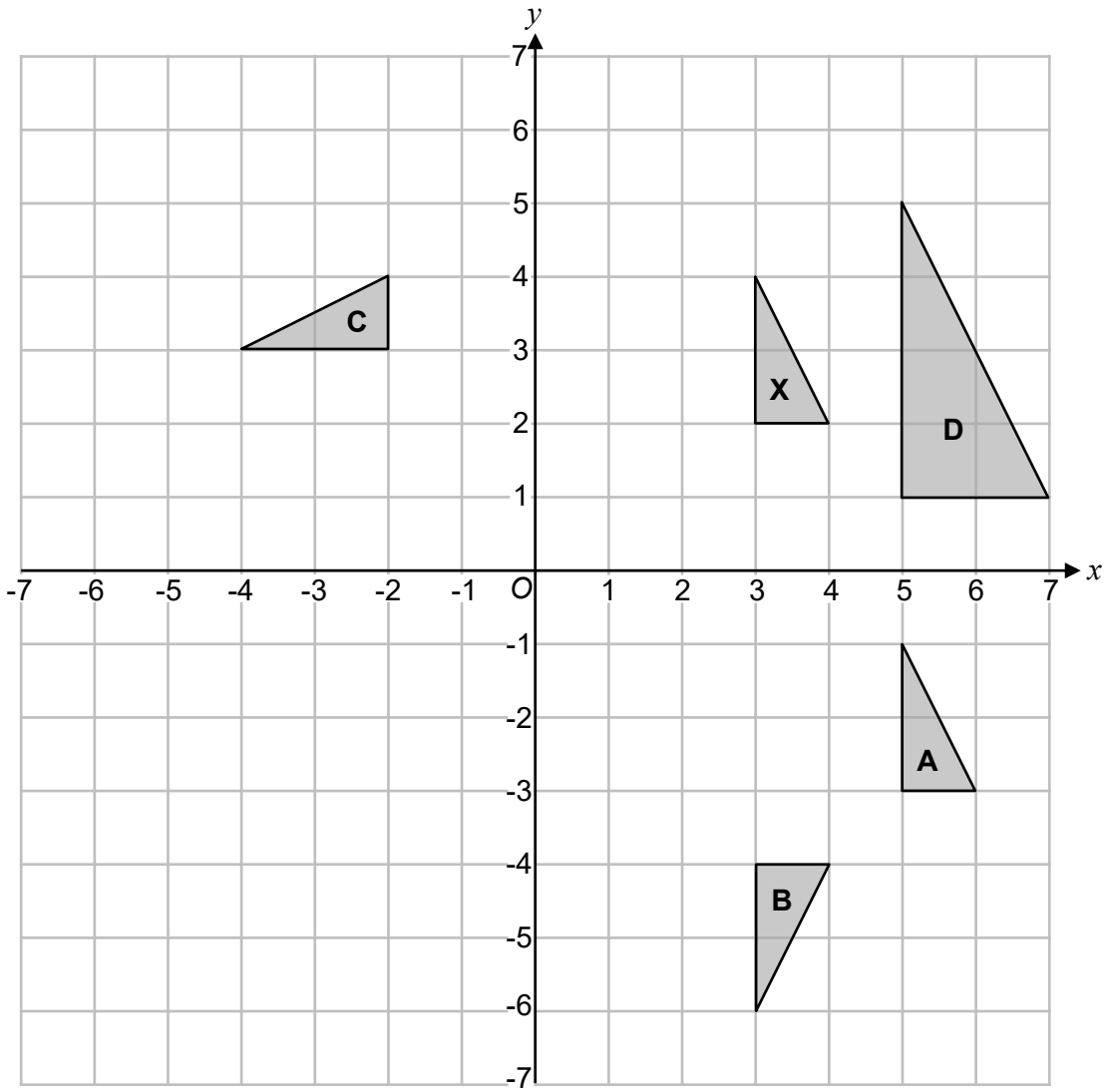
Work out the first term of the sequence that is not a prime number. **[3 marks]**

Answer _____

11

Do not write outside the box

10



10 (a) The transformation that maps shape **X** onto shape **A** is

a translation by the vector $\begin{pmatrix} 2 \\ -5 \end{pmatrix}$

Describe fully the single transformation that maps shape **A** onto shape **X**. **[1 mark]**

Do not write outside the box

10 (b) The transformation that maps shape **X** onto shape **B** is

a reflection in the line $y = -1$

Describe fully the single transformation that maps shape **B** onto shape **X**. **[1 mark]**

10 (c) The transformation that maps shape **X** onto shape **C** is

a rotation, 90° anticlockwise about (0,0)

Describe fully the single transformation that maps shape **C** onto shape **X**. **[1 mark]**

10 (d) The transformation that maps shape **X** onto shape **D** is

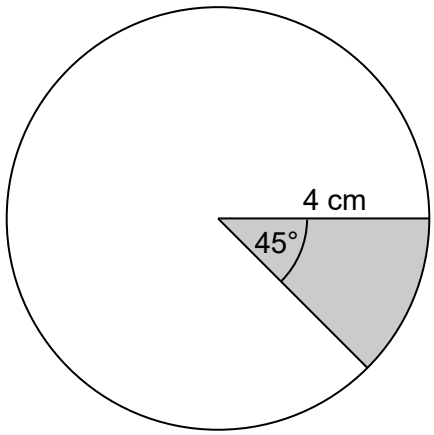
an enlargement, scale factor 2, about the point (1, 3)

Describe fully the single transformation that maps shape **D** onto shape **X**. **[1 mark]**

4

Do not write outside the box

11 Here is a circle with a radius of 4 cm.



Not drawn accurately

Work out the area of the shaded sector.
Give your answer in terms of π.

[3 marks]

Answer _____ cm^2

Do not write outside the box

12 Here is some information about Kye's mock exam papers for maths.

- Paper 1 mark = 45
- Paper 2 mark = 2 × Paper 3 mark

Kye's mean mark for all three papers was 40.

Work out how many marks Kye scored in Paper 3. **[4 marks]**

Answer _____

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

cos 0° tan 0° cos 60° tan 60° **[3 marks]**

Smallest _____

_____

_____

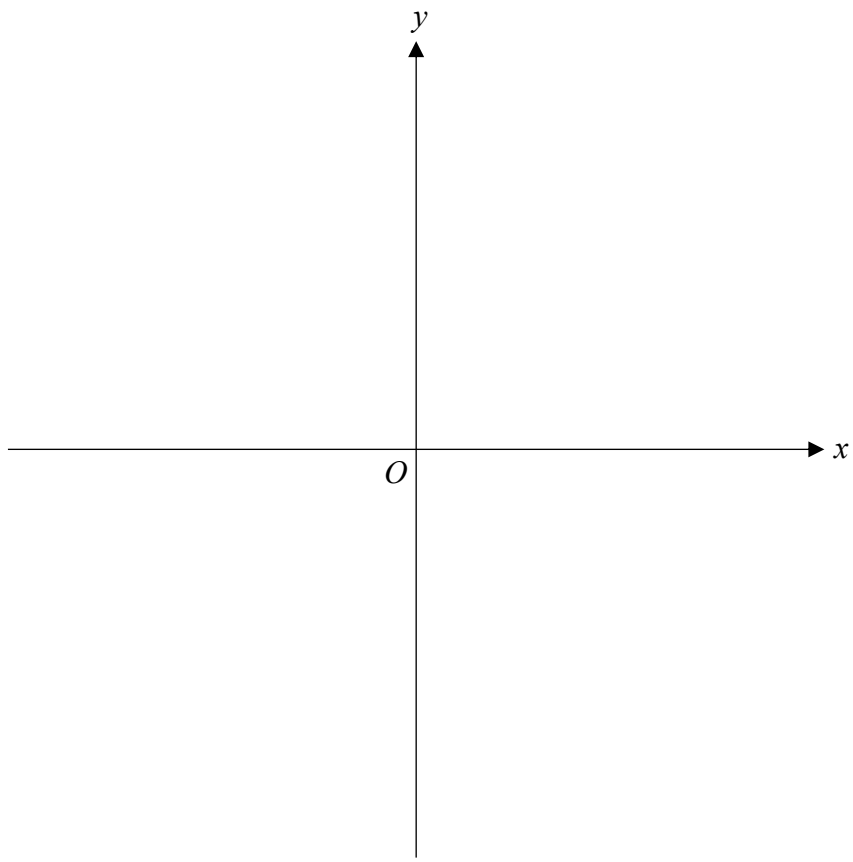
Largest _____

10

Turn over ►

Do not write outside the box

14 On the axes, sketch the graph of $y = \frac{1}{x}$ **[1 mark]**



15 Write 9×10^{50} as a product of its prime factors. **[3 marks]**

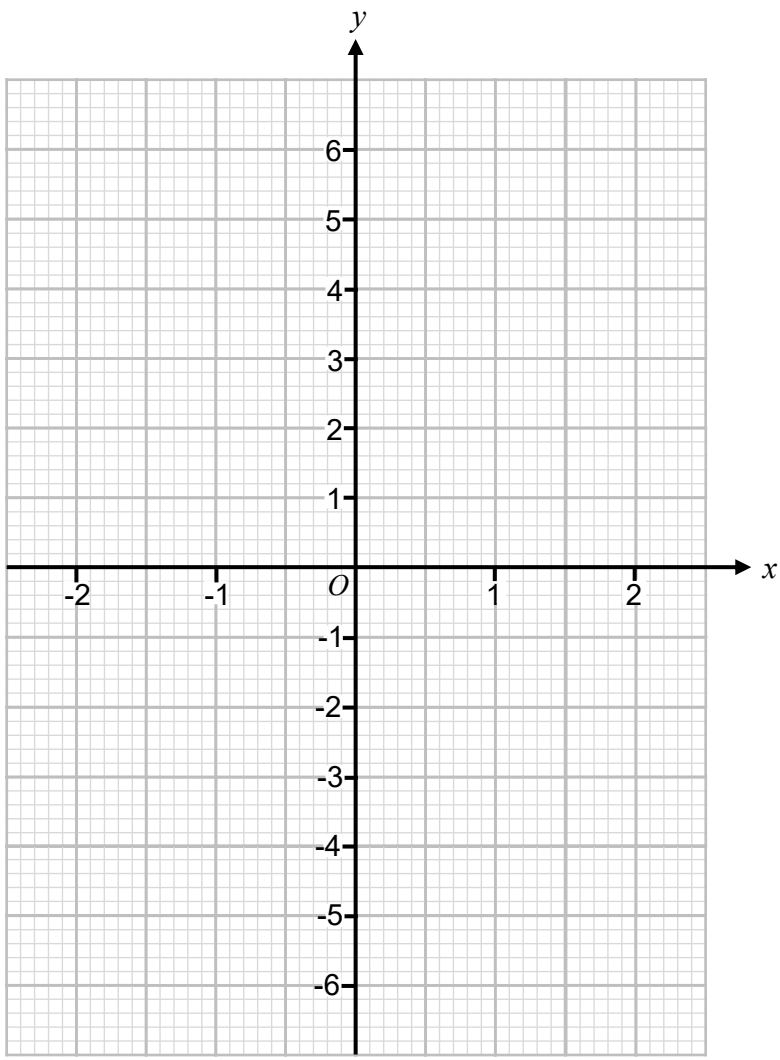
Answer _____

Do not write outside the box

16 (a) Complete the table of values for $y = \frac{1}{2}x^3$ **[2 marks]**

x	-2	-1	0	1	2
y					

16 (b) Draw the graph $y = \frac{1}{2}x^3$ for values of x from to -2 to 2 **[2 marks]**



8

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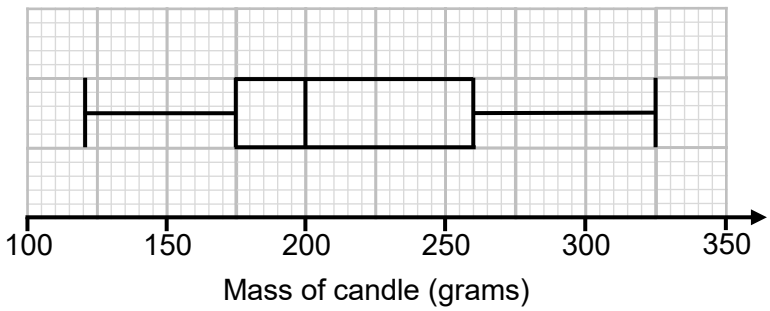
17 The box plot below shows information about the masses of different candles made by a company.



17 (a) Work out the interquartile range of the masses of the candles. **[2 marks]**

Answer _____ g

17 (b) The density of the wax used to make the candles is 0.8 g/cm^3
Work out the volume of the candle with the median mass. **[3 marks]**

Answer _____ cm^3

Do not write outside the box

18 $\frac{37}{300} = 0.123\dot{}$

18 (a) Write $\frac{37}{3000}$ as a recurring decimal. **[1 mark]**

Answer _____

18 (b) Write $0.246\dot{}$ as a fraction giving your answer in its simplest form. **[2 marks]**

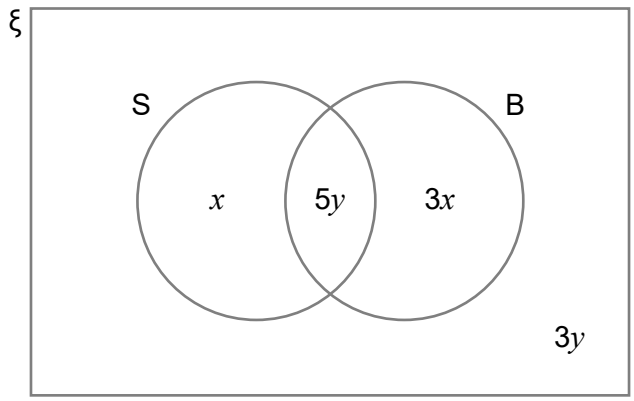
Answer _____

8

Do not write outside the box

19 The Venn diagram shows information about 100 children.

ξ = 100 children.
S = children who can swim.
B = children who can ride a bike.



67 of the children can ride a bike.

Work out the number of children that can swim. **[5 marks]**

Answer _____

Do not write outside the box

20 Work out $\left(\frac{4}{9}\right)^{-\frac{1}{2}} \div 125^{\frac{2}{3}}$

Give your answer as a decimal. **[5 marks]**

Answer _____

21 Solve $\frac{18}{x+5} + x = 6$ **[4 marks]**

Answer _____

14

Do not write outside the box

22 Solids **X** and **Y** are similar.

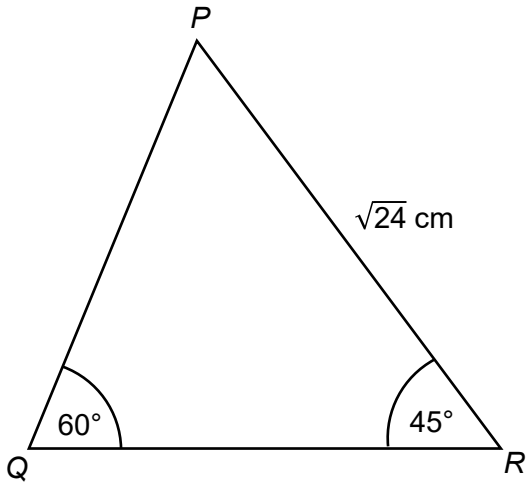
X has a surface area of 20 cm^2 and **Y** has a surface area of 1000 cm^2
The volume of **X** is 8 cm^3

Work out the volume of **Y**.
Give your answer in the form $a\sqrt{b}$ where a and b are integers. **[4 marks]**

Answer _____ cm^3

Do not write outside the box

23 *PQR* is a triangle.



Not drawn accurately

Find the length *PQ*.
You must show your working.

[4 marks]

Answer _____ cm

8

Turn over ►

Do not write outside the box

24 A curve has equation $y = x^2 - \sqrt{80}x + 3$

The coordinates of the turning point of the curve are $(a\sqrt{b}, c)$

Find the values of a, b and c. **[4 marks]**

$a =$ _____ $b =$ _____ $c =$ _____

END OF QUESTIONS

4