1st Class Maths

PRACTICE PAPER FOR

AQA Paper 1F
(June 2025)

---------------------------------- **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

Do not write outside the box

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

1 (a)   Write 35% as a decimal. **[1 mark]**

Answer _____

1 (b)   Write 0.7 as a fraction. **[1 mark]**

Answer _____

1 (c)   Write $\frac{3}{4}$ as a percentage **[1 mark]**

Answer _____

2   Write $\frac{3}{12}$ in its simplest form **[1 mark]**

Answer _____

3 Here is a list of numbers.

3   6   8   9   10   40   50

3 (a) Which number in the list is a multiple of 20 ? **[1 mark]**

Answer _____

3 (b) Which number in the list is a factor of 20 ? **[1 mark]**

Answer _____

3 (c) Which number in the list is a prime number? **[1 mark]**

Answer _____

3 (d) Which number in the list is a cube number? **[1 mark]**

Answer _____

8

Turn over ▶

4   Here are two calculations, **A** and **B**.

A	845 ÷ 5
B	14 × 13

Calculation **A** is less than calculation **B**.

How much less?   **[4 marks]**

Answer _____

5   Write one of the symbols $\boxed{=}$ $\boxed{>}$ $\boxed{<}$ in each of the boxes below.

You may you a symbol more than once.

One has been done for you.   **[4 marks]**

$$5 \times 2 \quad \boxed{=} \quad 2 \times 5$$

$$5.2 \quad \boxed{} \quad 5.15$$

$$\frac{1}{2} \quad \boxed{} \quad \frac{1}{3}$$

$$2^4 \quad \boxed{} \quad 4^2$$

$$-4 \quad \boxed{} \quad -2$$

$\boxed{\frac{}{8}}$

Turn over ▶

Do not write outside the box

6 $x = -10$ $y = -2$

6 (a)   Write down the value of $x + 3$ **[1 mark]**

Answer _____

6 (b)   Write down the value of x^2 **[1 mark]**

Answer _____

6 (c)   Write down the value of xy **[1 mark]**

Answer _____

7   Simplify fully $3a + 2 \times 4a$ **[2 marks]**

_____

_____

_____

Answer _____

8 The table below shows the heights of the players of a netball team.

Player	Height (cm)
Monica	194
Erica	171
Rita	172
Tina	182
Sandra	164
Mary	173
Jessica	171

8 (a) Write down the modal height of the netball players. **[1 mark]**

Answer _____ cm

8 (b) Work out the median height of the netball players. **[2 marks]**

Answer _____ cm

8 (c) Work out the range of the heights of the netball players. **[2 marks]**

Answer _____ cm

10

Turn over ▶

9   Miss Harrison's class has 30 students.
Mr Wilson's class has 32 students.

       80% of Miss Harrison's class pass their maths test.

       $\frac{3}{8}$ of Mr Wilson's class pass their maths test.

In total, how many students from both classes pass their maths tests?   **[4 marks]**

Answer _____

10   Layla plays a game.

The probability that she wins the game is 0.95

Work out the probability that Layla does **not** win the game.   **[2 marks]**

Answer _____

11 Match each calculation on the left with an answer on the right. **[3 marks]**
One has been done for you.

$$\frac{1}{8} - \frac{1}{8}$$

$$0$$

$$\frac{1}{64}$$

$$\frac{1}{8} + \frac{1}{8}$$

$$\frac{1}{32}$$

$$\frac{1}{8} \times \frac{1}{8}$$

$$\frac{1}{8}$$

$$\frac{1}{4}$$

$$\frac{1}{8} \div \frac{1}{8}$$

$$1$$

9

Turn over ►

12   A teacher asks 105 students in Year 11 if they want revision guides for maths and English.

English Revision Guide

Maths Revision Guide

Year 11 Students

Yes

75

Yes

60

No

15

105

No

30

Yes

20

No

10
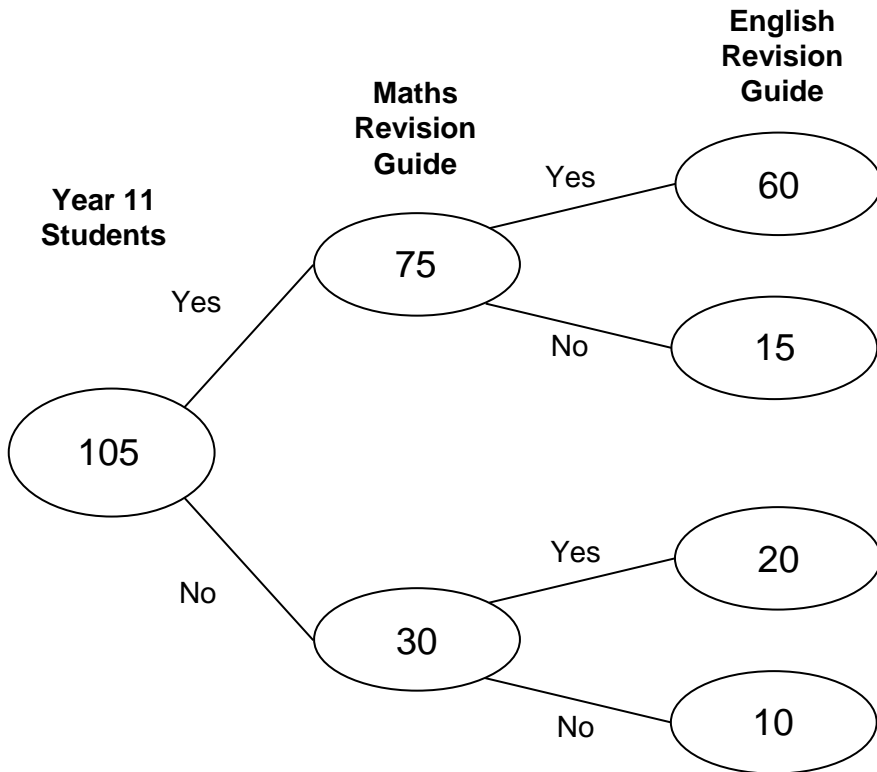
12 (a)   One of the Year 11 students is selected at random.

Work out the probability that the student did not want either of the revision guides.

[2 marks]

Answer _____

12 (b)   Write down the ratio of the students who

wanted a maths revision guide : did **not** want a maths revision guide

Give your answer in its simplest form.   **[2 marks]**

Answer _____ : _____

12 (c)   The school decides to buy revision guides for each student that wanted them.
The table below shows the prices of each revision guide.

Maths Revision Guide	£3.00
English Revision Guide	£2.50

Work out how much it will cost the school to buy all the revision guides needed.

[4 marks]

Answer £ _____

8

Turn over ▶

13   Two of the angles in a quadrilateral are 40° and 60°

For each statement below, tick the correct box.   **[3 marks]**

|	**Could be true**	**Cannot be true**
The other two angles are both acute angles	☐	☐
The other two angles are both obtuse angles	☐	☐
The other two angles are both reflex angles	☐	☐
One of the other two angles is an acute angle and the other is an obtuse angle.	☐	☐
One of the other two angles is an acute angle and the other is a reflex angle.	☐	☐
One of the other two angles is an obtuse angle and the other is a reflex angle.	☐	☐

14   Here is a rectangle.

Not drawn accurately

15 cm

5 cm
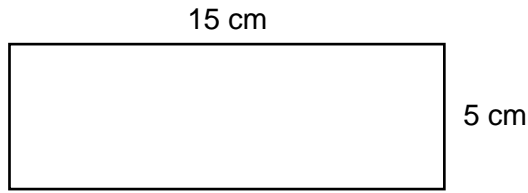
14 (a)   Work out the perimeter of the rectangle in inches.

Use 1 inch = 2.5 cm   **[3 marks]**

_____

_____

_____

_____

Answer _____ inches

14 (b)   In fact, 1 inch = 2.54 cm   **[1 marks]**

What does this mean about the perimeter of the rectangle in inches?

Tick **one** box.

☐   It will be more than the answer to part (a)

☐   It will be the same as the answer to part (a)

☐   It will be less than the answer to part (a)

☐   It is not possible to tell

7

Turn over ▶

15   Each lap of an athletics track is 400 metres long.

Keeley runs laps of an athletics track until she has run a total of 4 kilometres.

She runs each lap in 80 seconds

15 (a)   Work out how long it will take Keeley to run 4 kilometres.
Give your answer in minutes and seconds.   **[3 marks]**

Answer _____ minutes _____ seconds

15 (b)   Work out Keeley's average speed in metres per second.   **[2 marks]**
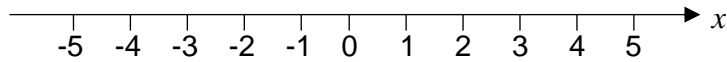
Answer _____ metres per second

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

Answer _____

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

$$\xrightarrow{\quad\quad\quad\quad\quad\quad} x$$

-5 -4 -3 -2 -1 0 1 2 3 4 5

17 A linear sequence starts

2   2.5   3   3.5   4   …

Work out an expression for the nth term of the sequence.   **[2 marks]**

Answer _____

11

Turn over ▶

18   Work out $(5.2 \times 10^3) + (2 \times 10^{-2})$

Give your answer as an ordinary number.   **[3 marks]**

Answer

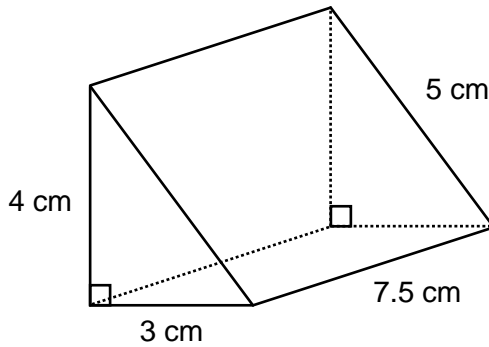**19**   Write $\sqrt{100} : \sqrt{16}$ in the form $n : 1$ **[2 marks]**

Answer _____ : 1

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

5 cm

Not drawn accurately

4 cm

7.5 cm

3 cm

Work out the volume of the prism.   **[3 marks]**

Answer _____ cm³

21   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]**
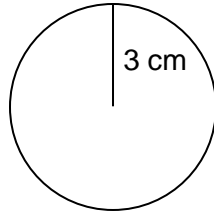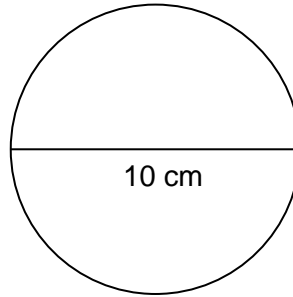
_____ g ⩽ mass < _____ g

10

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

3 cm

circle A

10 cm

circle B

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

Answer _____ %

23   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 _____ : _____ : _____

24 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

END OF QUESTIONS

3