

GL Mock 2 Maths



- Listen carefully to instructions that will be given.
- This paper starts with some practice questions.
- You will have **5 minutes** to complete the practice questions.
- You will have **25 minutes** to complete this paper.
- All answers should be marked on the separate answer sheet provided.

Maths Practice Section

(5 minutes)

This practice section gives an example of the sort of questions you will be faced with in this test, with the correct answer filled in on the answer sheet so that you can see how to do it.

There are also some practice questions that don't have the answers filled in, so that you can practise working them out for yourself and filling in the answer sheet.

Work out the correct answer and mark its letter on the answer sheet.

A Example

A rectangle has a length of 12cm and a width of 7cm. What is the area of the rectangle?

A. 84cm^2 B. 64cm^2 C. 38cm^2 D. 96cm^2 E. 76cm^2

The answer is **84cm^2** . You can work this out by multiplying the length of the rectangle by the width of the rectangle. The calculation is:

$$12 \times 7 =$$

The correct answer has been marked on your answer sheet.

Now try these practice questions.

Work out the correct answer and mark it on the answer sheet.

1 Practice

Which number is a multiple of both 4 and 9?

- A. 18 B. 24 C. 32 D. 36 E. 40

2 Practice

If one pencil costs 85p, how much would it cost to buy 6 pencils?

- A. £4.70 B. £5.10 C. £5.25 D. £5.40 E. £6.10

END OF PRACTICE SECTION

The maths test begins on the next page.

- You have 25 minutes to complete the maths test.
- There are 25 questions to answer.
- Your time will start when you turn over the page.
- Do not turn over the page until you are told to do so.

Maths
(25 minutes)

Work out the correct answer and mark its letter on your answer sheet.

1 What is $\frac{1}{3}$ of $2\frac{1}{2}$?

A $\frac{5}{6}$

B $\frac{1}{3}$

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

D $\frac{4}{7}$

E $\frac{2}{3}$

2 A book costs £6.80. If you buy three copies, how much change would you get from £25?

A £20.40

B £3.20

C £4.60

D £5.20

E £4.40

- 3** There are 36 apples in a basket. $\frac{1}{3}$ of the apples are green and the rest are red. How many apples are red?
- A 18
- B 24
- C 30
- D 12
- E 26
- 4** Alice has 3 times as many apples as Bob. Together, they have 48 apples. How many apples does Bob have?
- A 12
- B 16
- C 18
- D 14
- E 24
- 5** What is the next prime number after 17?
- A 18
- B 19
- C 21
- D 23
- E 27

6 What is the value of x in $7x + 4 = 32$?

A 3

B 5

C 6

D 7

E 4

7 Calculate the value of $5^2 + 3^2$.

A 22

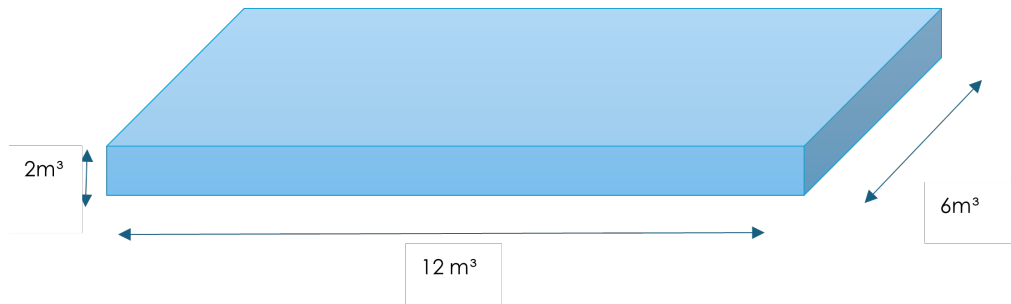
B 16

C 25

D 34

E 10

- 8 A pool is in the shape of a rectangular prism with a length of 12 metres, a width of 6 metres, and a depth of 2 metres. What is the capacity of the pool in cubic metres?



- A 144m³
- B 150m³
- C 180m³
- D 120m³
- E 200m³
- 9 Use this table of information to answer questions 9 & 10.

A stationery shop offers the following prices for their products:

Pack of 3 pens	Pencils	Pack of 5 highlighters	Pack of 4 rubbers
£1.20	25p each	£3.50	£1.60

What will it cost to buy 12 pens, 10 pencils, and 5 highlighters?

- A £9.40
- B £10.00
- C £10.80
- D £9.80
- E £11.20

10 Which item is best value for money per unit?

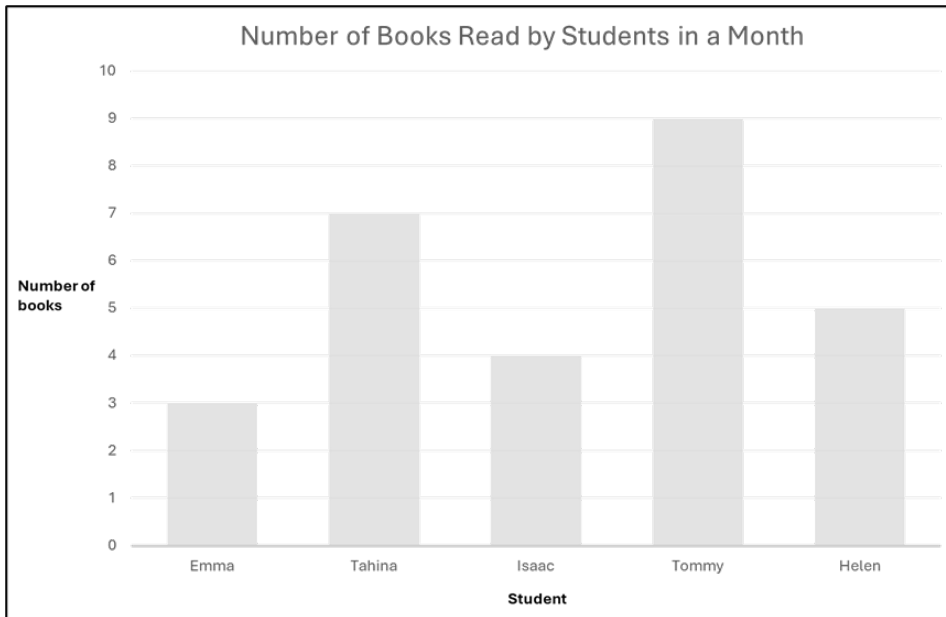
- A Pen
- B Pencil
- C Highlighter
- D Rubber
- E All are equal

11 Which is the largest number?

0.45 $\frac{3}{4}$ $\frac{1}{3}$ 0.5 $\frac{2}{5}$

- A 0.45
- B $\frac{3}{4}$
- C $\frac{1}{3}$
- D 0.5
- E $\frac{2}{5}$

The graph below shows the number of books read in a month by a group of students. Use the graph to answer questions 12 – 14.



12 What is the range of the number of books read by the students?

- A 5
- B 6
- C 7
- D 8
- E 4

13 What is the total number of books read by the students?

- A 26
- B 27
- C 28
- D 29
- E 30

14 How many more books did Tahina read than Isaac?

A 3

B 4

C 5

D 6

E 7

15 Calculate $\frac{3}{8} + \frac{1}{2} =$

A $\frac{7}{8}$

B $\frac{3}{4}$

C $\frac{2}{3}$

D 1

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

16 Calculate $6.8 \times 9.5 =$

A 65.2

B 63.5

C 62.2

D 60.8

E 64.6

- 17** Find 35% of 160.
- A 48
 - B 56
 - C 8
 - D 16
 - E 36
- 18** Sophie wants to buy 3 books. The first book costs two pounds less than the second book, and the third book costs a pound more than the first book. The second book costs £8. How much does the third book cost?
- A £1
 - B £7
 - C £3
 - D £8
 - E £9
- 19** A train travels at a speed of 60 km/h. How far will it travel in 3.5 hours?
- A 210km
 - B 200km
 - C 180km
 - D 240km
 - E 150km

- 20** A piece of ribbon is 5 meters long. If it is cut into pieces that are each 25 cm long, how many pieces can be made?
- A 20
- B 10
- C 15
- D 25
- E 30
- 21** I think of a number.
I double my number and then add 25.
The final result is 93.
What was the number I started with?
- A 44
- B 38
- C 40
- D 34
- E 48
- 22** Let $A = 6$ and $C = 10$.
If $A^2 + B^2 = C^2$, what is the value of B ?
- A 4
- B 5
- C 6
- D 7
- E 8

- 23** Mr. Green's class recorded the number of different genres of books they read in a month. The genre of books and the number of each read are shown below:

Fiction	Non-Fiction	Mystery	Fantasy
40	25	15	20

What percentage of the books were fiction?

- A 12%
 - B 50%
 - C 64%
 - D 40%
 - E 30%
- 24** $\frac{5}{8}$ of a number N is 75. What is $\frac{1}{4}$ of N?
- A 120
 - B 15
 - C 30
 - D 18
 - E 25

25 The perimeter of a rectangle is 36 cm. If the length is 10 cm, what is the width?

A 8cm

B 6cm

C 4cm

D 3cm

E 5cm

END OF MATHS TEST

Working Out Space

[illegible]