

# GL Mock 1 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.

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

## A Example

I think of a number.  
I triple my number and then I subtract 17.  
The final result is 127.

What was the number I started with?

A. 150                      B. 64                      C. 79                      D. 48                      E. 36

The answer is **48**. You can work this out by taking the final result, 127, and reversing the steps described.

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**

Three identical books have a total weight of 840g. What is the weight of five of these books?

- A. 280g      B. 1,400g      C. 1,120g      D. 1.2kg      E. 960g

**2 Practice**

The perimeter of a rectangle is 30cm. The length of the rectangle is 12cm. What is the width of the rectangle?

- A. 10cm      B. 3cm      C. 6cm      D. 9cm      E. 4cm

**END OF PRACTICE SECTION**

The maths test begins on the next page.

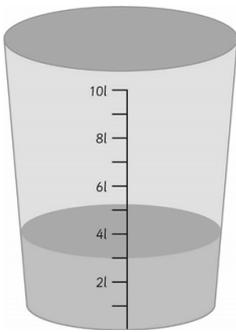
- You have 25 minutes to complete the maths test.
- There are 25 questions to answer.
- Your time will start when you turn over the page.
- Do not turn over the page until you are told to do so.

**Maths**  
**(25 minutes)**

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

- 1** A right-angled triangle has one angle that is 60 degrees. What are the other two angles?
- A All angles are 60°
  - B 90° and 30°
  - C This cannot make a valid triangle.
  - D 210°
  - E 60° and 90°

- 2** Tariq adds 2500ml of water into this bucket. How many litres of water are in the bucket now?



- A 3,000ml
- B 4.5l
- C 5.5l
- D 7l
- E 5,500ml

**3** Calculate the value of:

$$2 \frac{1}{2} - 1 \frac{3}{8} =$$

A  $1 \frac{3}{4}$

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

C 1

D  $3 \frac{3}{4}$

E  $2 \frac{1}{4}$

**4** Which is the largest number?

$$0.27 \quad \frac{1}{2} \quad \frac{1}{5} \quad 0.52 \quad \frac{3}{5}$$

A 0.27

B  $\frac{1}{2}$

C  $\frac{1}{5}$

D 0.52

E  $\frac{3}{5}$

**5** Which number is closest to 0.19?

$$0.27 \quad \frac{1}{2} \quad \frac{1}{5} \quad 0.52 \quad \frac{3}{5}$$

A 0.27

B  $\frac{1}{2}$

C  $\frac{1}{5}$

D 0.52

E  $\frac{3}{5}$

- 6 The total flying time from Abuja to New York via London is 15 hours. The section from Abuja to London takes 40% of the time. The flight takes off from Abuja at 10.20am.

Abuja is 1 hour ahead of London. What time does the flight land in London?

A 1:20am

B 6:20am

C 4:20pm

D 4:20am

E 3:20pm

- 7 There is a stopover in London of 3 hours. New York is 5 hours behind London. What time does the flight land in New York?

A 10:20pm

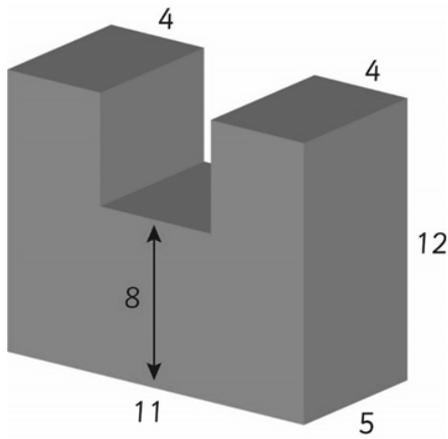
B 3:20am

C 4:20am

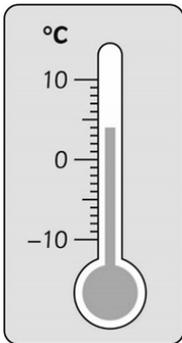
D 1:20am

E 8:20pm

- 8 What is the volume of this shape? (All measurements are in cm.)



- A  $568\text{cm}^3$
- B  $800\text{cm}^3$
- C  $600\text{cm}^3$
- D  $660\text{cm}^3$
- E  $1,056\text{cm}^3$
- 9 Amy took the temperature at 10am as seen on this thermometer. 13 hours later the temperature had reduced by 7 degrees. What was the temperature then?



- A  $7^\circ$
- B  $-5^\circ$
- C  $-1^\circ$
- D  $-3^\circ$
- E  $6^\circ$

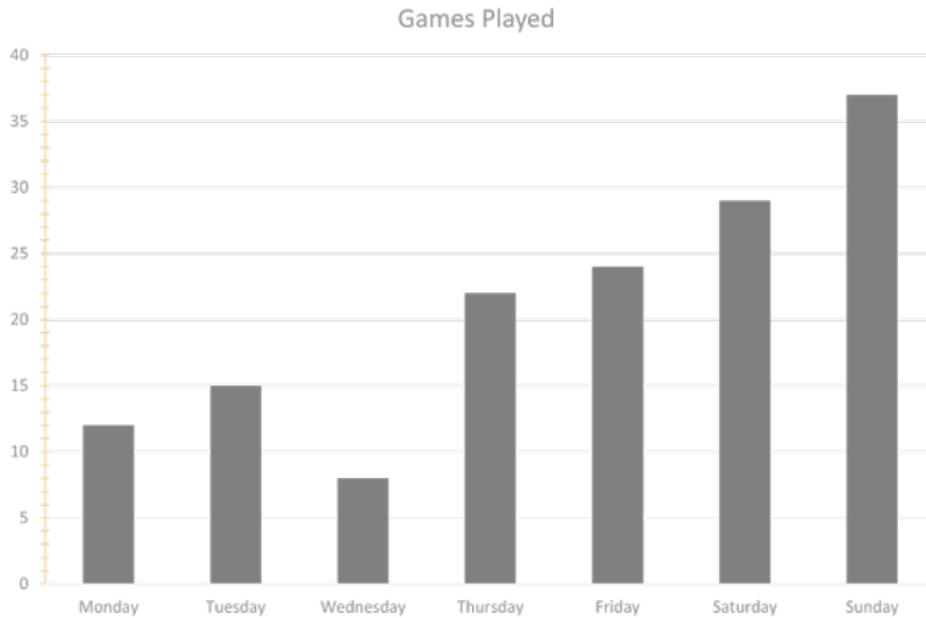
- 10 This is a train timetable for the Edinburgh to Kings Cross train.

Explore Travel – Train Timetable			
<b>Edinburgh</b>	05:58	08:25	09:45
<b>Newcastle</b>	07:42	10:10	11:30
<b>Doncaster</b>	09:16	11:42	13:13
<b>Kings Cross</b>	10:53	13:20	14:14

If the 05:58 left 17 minutes late, what time would passengers arrive at Doncaster?

- A 09:00
- B 07:52
- C 09:33
- D 10:33
- E 09:52
- 11 A replacement bus is needed for the 08:25 from Edinburgh between Newcastle and Doncaster. The bus takes 2 hours and 10 minutes. How late will the passengers arrive in Doncaster?
- A 0 minutes
- B 2 hours and 10 minutes
- C 12 minutes
- D 38 minutes
- E 1 hour and 10 minutes

The graph below shows the number of basketball games played at a leisure centre over a week. Use the graph to answer questions 12 – 14.



**12** What was the total number of games at the weekend?

- A 66
- B 56
- C 90
- D 147
- E 27

**13** What is the range between the numbers of games played across the week?

- A 34
- B 20
- C 147
- D 29
- E 37

**14** What was the mean number of games played per day?

A 21

B 20

C 22

D 23

E 25

**15** Calculate  $17.3 + 12.9 =$

A 30.1

B 29.9

C 31.1

D 31.2

E 30.2

**16** Calculate  $7.2 \times 11.4 =$

A 82.08

B 82.0

C 87.2

D 82.8

E 87.02

**17** Find 15% of 150.

A 12.5

B 22.5

C 1.5

D 19.5

E 15

**18** Joao runs a restaurant. The first customer buys a biscuit, a banana and a bottle of water for £4. The second customer buys 2 bottles of water, a banana and a biscuit for £6. The third customer buys 2 biscuits, a banana and a bottle of water for £5.50.

How much does a biscuit cost?

A £1.50

B £1.00

C £2.50

D £0.50

E £2.00

**19** How much does a banana cost?

A £1.50

B £1.00

C £2.50

D £0.50

E £2.00

**20** How much does a bottle of water cost?

A £1.50

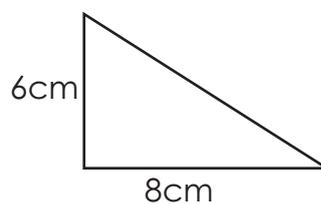
B £1.00

C £2.50

D £0.50

E £2.00

**21** Calculate the area of this triangle.



A  $46\text{cm}^2$

B  $32\text{cm}^2$

C  $24\text{cm}^2$

D  $16\text{cm}^2$

E  $62\text{cm}^2$

**22** What is the value of  $p$  in  $3p^2 = 108$ ?

A 4

B 9

C 3

D 6

E 5

- 23** Miss Miller's class recorded the number of each type of bird they saw from the classroom window.

Pigeon	Wren	Sparrow	Blackbird
32	3	8	7

What percentage of the birds were pigeons?

- A 12%
- B 64%
- C 56%
- D 32%
- E 48%
- 24** What is the value of  $j$  in this equation:  $\frac{j + 8.5}{60} = 20\%$
- A 1.5
- B 68.5
- C 42.5
- D 3.5
- E 2.5

**25** What is the highest common factor of 18 and 36?

A 12

B 36

C 9

D 6

E 18

**END OF MATHS TEST**

