

# GL Mock 3 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.

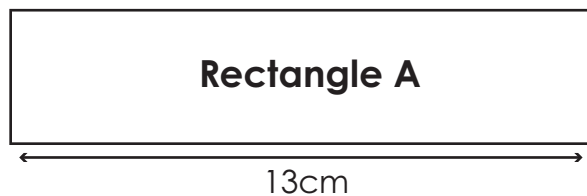
There are also some practice questions that don't have the answers filled in, so that you can practise working them out for yourself and filling in the answer sheet.

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

## A Example

The perimeter of Rectangle A is 42cm.



What is the width of Rectangle A?

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

The answer is **8cm**. To calculate the perimeter of a 2D shape, you add up the lengths of all its sides. The two lengths of the rectangle give a total of 26cm. If we take this away from the total perimeter, we are left with 16cm. Halve this value to get the width of the rectangle.

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**

A book costs £4.50. How much would 7 books cost?

- A. £30.50      B. £31.50      C. £32.50      D. £28.50      E. £27.50

**2 Practice**

A train leaves at 08:45 and arrives at 10:10. How long is the journey?

- A. 85 minutes    B. 90 minutes    C. 80 minutes    D. 75 minutes    E. 95 minutes

**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** Round 22.876 to 2 decimal places.

A 22

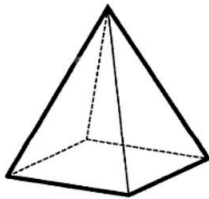
B 22.97

C 22.87

D 22.88

E 22.9

**2** The diagram shows a square-based pyramid.



How many edges does the pyramid have?

A 4

B 5

C 6

D 7

E 8

**3** What is the product of 12 and 8.5?

A 102

B 108

C 98

D 102.5

E 100

**4** Which is the smallest number?

0.4    $\frac{3}{5}$     $\frac{2}{3}$    0.25    $\frac{5}{10}$

A 0.4

B  $\frac{3}{5}$

C  $\frac{2}{3}$

D 0.25

E  $\frac{5}{10}$

**5** A headteacher is arranging for the children to go to the theatre. They will hire minibuses to take the children to the theatre. Each bus takes 16 children. There are 150 children in total.

How many buses will the school need to take all the children to the theatre?

A 5

B 7

C 9

D 10

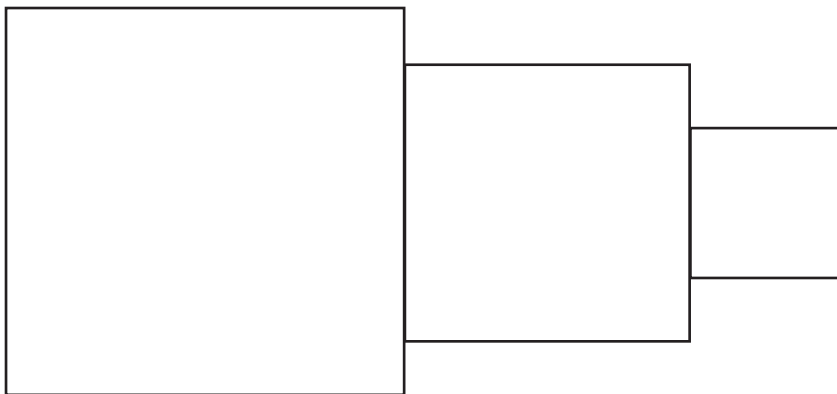
E 11

- 6 Jane is watching birds play in her garden. She noted that 3 out of 7 were pigeons. She recorded 42 birds in total.

How many birds were not pigeons?

- A 10
- B 15
- C 18
- D 24
- E 30

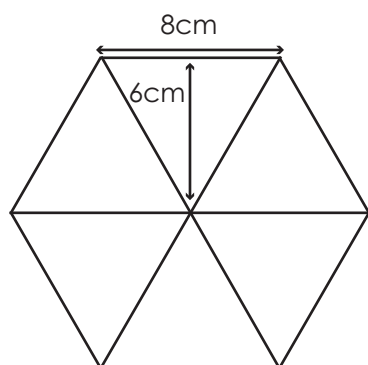
- 7 A square of area  $49\text{cm}^2$ , a square of perimeter  $20\text{cm}$  and a square of area  $9\text{cm}^2$  are positioned next to each other, as shown below.



What is the perimeter of the new shape formed?

- A 38cm
- B 40cm
- C 41cm
- D 43cm
- E 44cm

- 8 The hexagon is made up of 6 identical triangles.



What is the area of the hexagon?

- A 120cm<sup>2</sup>
- B 144cm<sup>2</sup>
- C 160cm<sup>2</sup>
- D 220cm<sup>2</sup>
- E 288cm<sup>2</sup>
- 9 75 children from across reception and Year 1 were asked what their favourite animal was.

	Reception	Year 1
<b>Rabbit</b>	12	8
<b>Dog</b>	?	37
<b>Hamster</b>	4	6

How many Reception children said that dogs were their favourite animal?

- A 12
- B 59
- C 8
- D 24
- E 17

- 10** This is a coach timetable. Use this table to answer questions 10 and 11.

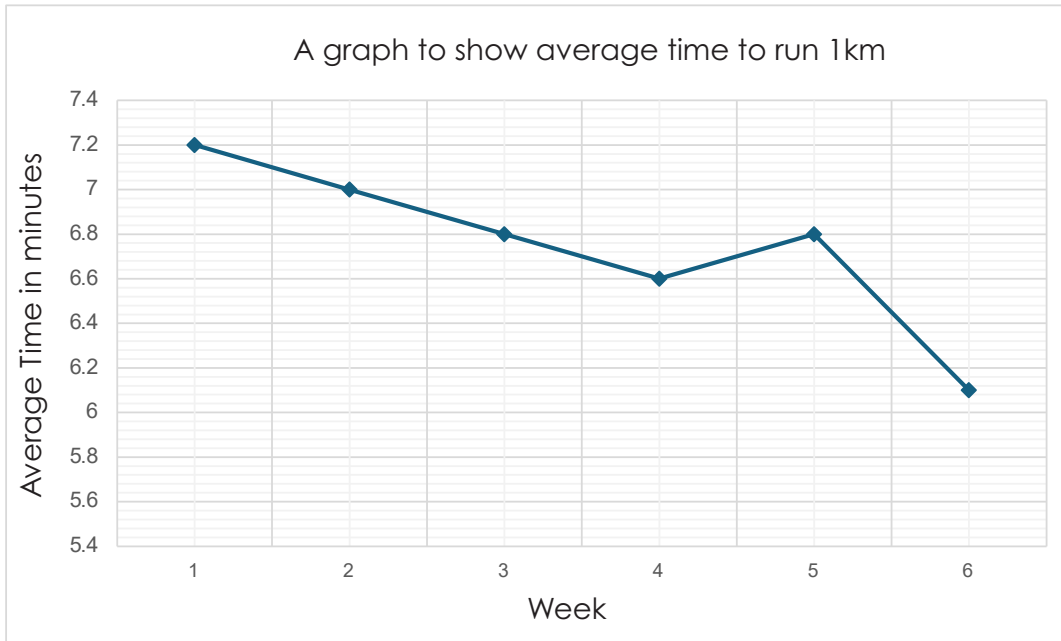
Explore Coaches – Daily Timetable (Monday – Friday)				
	Coach A	Coach B	Coach C	Coach D
Parkside	08:15	09:30	10:45	11:05
Riverview	08:45	10:00	11:15	11:37
Hilltop	09:10	10:30	11:40	12:15
Market Square	09:45	11:05	12:20	12:56

Liam wants to travel from Riverview to Market Square in the shortest possible time. Which coach should he take?

- A Coach A
- B Coach B
- C Coach C
- D Coach D
- E All coaches take the same amount of time.
- 11** If Coach D is delayed at Parkside by 7 minutes and delayed at Riverview by a further 6 minutes, what time will it arrive at Hilltop?
- A 11:50
- B 12:20
- C 12:28
- D 12:15
- E 13:38



The graph below shows the average time it took year 6 students to run 1km over a six-week period. Use the graph to answer questions 12 – 14.



- 12** What was the average running time in week 4?
- A 7.2 minutes
  - B 7 minutes
  - C 6.8 minutes
  - D 6.6 minutes
  - E 6.2 minutes
- 13** How many weeks had an average time less than 6.7 minutes?
- A 1 week
  - B 2 weeks
  - C 3 weeks
  - D 4 weeks
  - E 5 weeks

**14** What is the difference in average time for week 1 to week 6?

- A 1 minute
- B 1.1 minutes
- C 0.6 minutes
- D 1.2 minutes
- E 1.8 minutes

**15** Calculate  $23.6 + 14.9 =$

- A 38.2
- B 37.4
- C 38.5
- D 37.7
- E 37.15

**16**  $(4X)^3 = 512$

What is the value of X?

- A 2
- B 4
- C 8
- D 16
- E 20

- 17** A school has 480 pupils. 40% of the pupils are boys. 25% of the girls wear glasses. How many girls wear glasses?
- A        72
- B        192
- C        288
- D        55
- E        98
- 
- 18** A bag contains 4 red counters, 3 blue counters and 5 green counters. One counter is picked at random.
- What is the probability that the counter is not green?
- A         $\frac{2}{6}$
- B         $\frac{5}{12}$
- C         $\frac{7}{12}$
- D         $\frac{3}{12}$
- E         $\frac{1}{3}$
- 
- 19** Jasmine pours out 300ml of juice from a full jug. She has poured out  $\frac{3}{8}$  of the juice in the jug. How much juice was in the jug to start with?
- A        500ml
- B        750ml
- C        600ml
- D        800ml
- E        900ml

**20** In a sweet shop, the ratio of chocolate bars to sweets is 3:5. If there are 120 sweets, how many chocolate bars are there?

A 45

B 60

C 72

D 75

E 80

**21** A teacher recorded the results of 9 children in a maths test. The test was out of 20 marks.

Child 1	Child 2	Child 3	Child 4	Child 5	Child 6	Child 7	Child 8	Child 9
8	11	7	16	3	10	13	8	5

What is the average result for the maths test?

A 7

B 8

C 9

D 10

E 11

**22** Which of these numbers is a multiple of both 6 and 8?

A 24

B 36

C 42

D 30

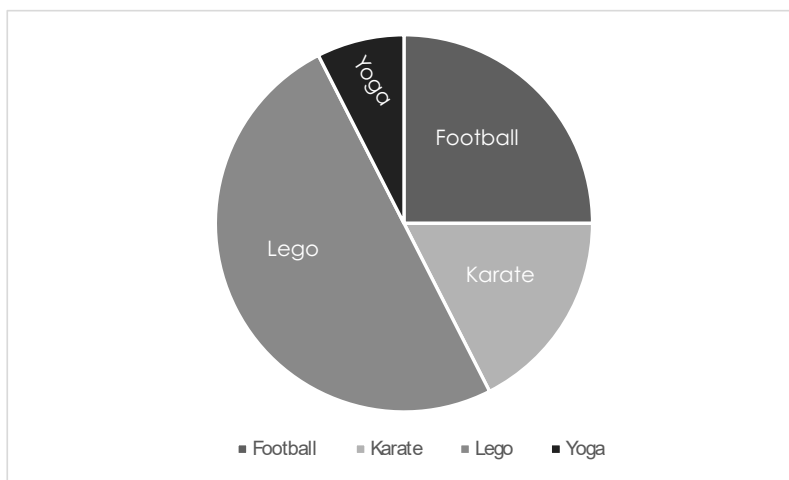
E 32

- 23** Five bakers each baked a tray of cupcakes. Their baking times in minutes (m) and / or seconds (s) are shown in the table below.

Baker 1	Baker 2	Baker 3	Baker 4	Baker 5
1.5 m	1 m 47 s	109 s	1 m 36 s	1.25 m

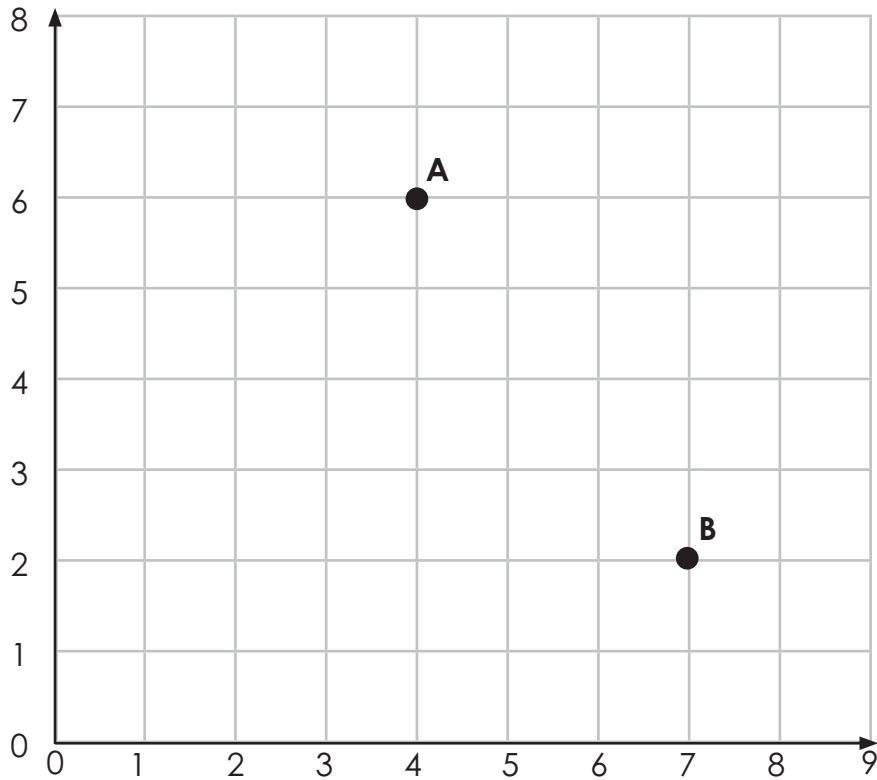
Who bakes their cupcakes the fastest?

- A Baker 1
- B Baker 2
- C Baker 3
- D Baker 4
- E Baker 5
- 24** 200 children were asked what their favourite after school club is. 35 children voted for karate. How many said their favourite after school club was yoga?



- A 10
- B 15
- C 20
- D 50
- E 30

- 25** Point A has been translated to Point B.



Which one of the following describes the correct translation?

- A 5 down, 3 right
- B 2 right, 4 down
- C 3 left, 4 down
- D 3 right, 5 down
- E 3 right, 4 down

**END OF MATHS TEST**

## Working Out Space

[illegible]

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