


# GL Mock Paper C – Maths

## Read the instructions carefully.

1. This is a multiple-choice paper in which you have to mark your answer to each question on the separate answer sheet.
2. Draw a firm line clearly through the rectangle next to your answer like this . If you make a mistake, rub it out completely and put in your new answer.
3. You will have **50 minutes to answer 50 questions**.
4. You may find some of the questions difficult. If you cannot do a question, do not waste time on it, but go on to the next questions. If you are not sure of an answer, choose the one you think is best.
5. Work as quickly and as carefully as you can.
6. Make sure you can see a clock.
7. Allocate enough time to check your answers at the end.

In the questions 1-5, choose the number that will complete the equations correctly.

1.  $(5 + 3) \times \underline{\hspace{2cm}} = 32$

- A. 2                      B. 4                      C. 3                      D. 1                      E. 5

2.  $236 - (24 + 12) \times \frac{1}{4} = \frac{1}{2} \times \underline{\hspace{2cm}}$

- A. 50                      B. 75                      C. 80                      D. 100                      E. 110

3.  $4 \div \frac{2}{3} = 2^2 + \underline{\hspace{2cm}}$

- A. 2                      B. 3                      C. 4                      D. 5                      E. 6

4.  $10^2 - (24 + \underline{\hspace{2cm}}) = (25 + 17) \div 3$

- A. 14                      B. 42                      C. 62                      D. 12                      E. 56

5.  $(\frac{3}{4} + 0.5) \times 8 = \underline{\hspace{2cm}} \div 10$

- A. 10                      B. 110                      C. 200                      D. 70                      E. 100

6. **Let A = 6 and C = 10.**

If  $A^2 + B^2 = C^2$ , what is the value of B?

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

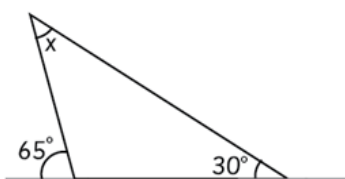
7. What is 16% as a fraction in its simplest form?

- A.  $\frac{16}{100}$                       B.  $\frac{8}{50}$                       C.  $\frac{4}{25}$                       D.  $\frac{1}{4}$                       E.  $\frac{4}{40}$

8. A coin is thrown 24 times. How many times is it likely to land on tails?

- A. 12                      B. 48                      C. 24                      D. 6                      E. 20

9. If angle x is 125 degrees, how big is the remaining angle inside the triangle?



- A. 180°                      B. 30°                      C. 205°                      D. 25°                      E. 100°

10. A rectangle has a perimeter of 26cm. Its length is 6cm. What is its width?
- A. 8cm            B. 7cm            C. 6cm            D. 5cm            E. 4cm
11. Breeda splits 2.7kg of sweets into 100 bags. How much does each bag weigh?
- A. 0.27g            B. 70g            C. 20g            D. 27g            E. 1.27g

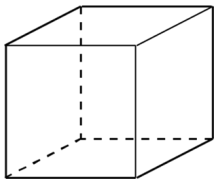
The timetable below shows departure times, duration and prices for boat trips running daily from the St Ives harbour.

**Questions 12-15 relate to the information below.**

Departure time	Duration	Price (Adults)	Price (Children)
10:00 AM	1 hour	£15	£10
12:00 PM	1.5 hours	£20	£15
2:00 PM	2 hours	£25	£20
4:00 PM	1 hour	£15	£10

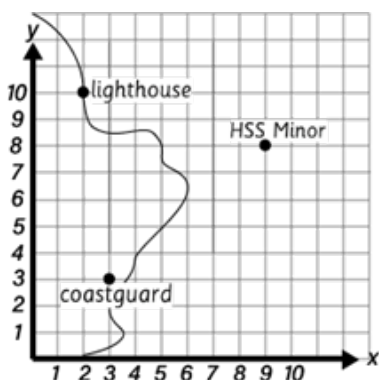
12. If a family of 2 adults and 3 children take the boat trip at 12:00 PM, what will be the total cost for the trip?
- A. £70            B. £110            C. £60            D. £85            E. £75
13. The 1-hour boat trip is an 8km tour around the coast. If the 1.5-hour boat travels at the same speed, how many km is the total journey?
- A. 10km            B. 11km            C. 12km            D. 13km            E. 14km
14. Compare the price of a 1-hour trip at 10:00 AM with a 1.5-hour trip at 12:00 PM for an adult and a child. How much more does it cost for each person on the longer trip?
- A. £2.50            B. £5            C. £2.00            D. £5.50            E. £3.00
15. If the ratio of adults to children on the 4:00 PM boat trip is 3:2, and the total number of tickets sold is 20, how many tickets were bought by adults?
- A. 9            B. 10            C. 11            D. 12            E. 13
16. Jagga plays a board game with friends and it takes 174 minutes. Roughly how many hours did it last?
- A. 3            B. 4            C. 5            D. 6            E. 7

Use the cube below to answer questions 17-19.



17. How many faces does this cube have?  
A. 2                      B. 3                      C. 4                      D. 5                      E. 6
18. How many vertices does this cube have?  
A. 2                      B. 4                      C. 6                      D. 8                      E. 10
19. How many edges does this cube have?  
A. 10                      B. 12                      C. 8                      D. 6                      E. 4
20. Emma is baking cookies. She uses 2.25 cups of flour for one batch of cookies. How many cups of flour does she need for 4 batches?  
A. 9                      B. 10                      C. 11                      D. 12                      E. 13
21. If each batch makes 12 cookies, how many cookies will Emma have after baking 6 batches?  
A. 36                      B. 72                      C. 42                      D. 56                      E. 70
22. After making 6 batches, Emma gives  $\frac{2}{3}$  of the cookies to her friends. How many cookies is she left with?  
A. 48                      B. 12                      C. 6                      D. 24                      E. 36
23. Honey got 12 out of 48 on a history test. What percentage did Honey get?  
A. 20%                      B. 30%                      C. 50%                      D. 12%                      E. 25%

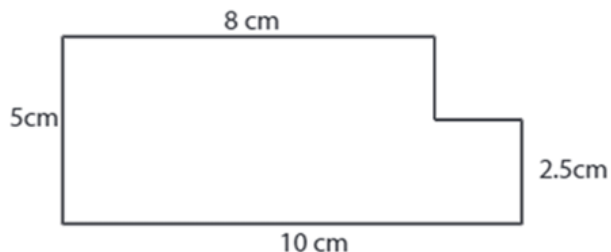
Use the grid below to answer questions 24-26.



- 24.** What are the coordinates of the lighthouse?  
A. (10,2)      B. (3,9)      C. (2,10)      D. (8,10)      E. (3,3)
- 25.** What are the coordinates of the coastguard?  
A. (8,10)      B. (10,2)      C. (3,9)      D. (3,3)      E. (8,8)
- 26.** If the 3 points on the graph are joined, it would form a triangle. What type of triangle would be formed?  
A. right-angle      B. scalene      C. isosceles      D. equilateral      E. acute
- 27.** A rectangular swimming pool is being filled with water. The pool is 10 metres long, 6 metres wide, and 2 metres deep. What is the volume of the pool?  
A. 120m<sup>2</sup>      B. 20m<sup>2</sup>      C. 60m<sup>2</sup>      D. 100m<sup>2</sup>      E. 60cm<sup>2</sup>
- 28.** If the pool is filled at a rate of 1.5 cubic metres per hour, how many hours will it take to fill the pool?  
A. 20      B. 40      C. 60      D. 80      E. 100
- 29.** The pool holds approximately 120,000 litres of water. The ratio of pool cleaning solution to the total volume of the pool is 1:240. How much pool cleaning solution needs to be added to the whole pool?  
A. 100l      B. 500l      C. 200l      D. 300l      E. 400l
- 30.** A toy store is having a sale. A toy car originally costs £30, but there is a 15% discount. What is the sale price of the toy car?  
A. £15.00      B. £20.00      C. £25.50      D. £20.50      E. £23.25
- 31.** If a customer buys 3 toy cars at the sale price, what is the total cost?  
A. £90.00      B. £75.50      C. £76.00      D. £80.00      E. £76.50
- 32.** A toy robot is reduced in the sale from £50 to £35. What is the percentage decrease in price?  
A. 15%      B. 20%      C. 30%      D. 35%      E. 40%
- 33.** Tom is saving money to buy a bicycle. He saves £15 each week. How much will he save in 10 weeks?  
A. £100      B. £150      C. £120      D. £160      E. £130

34. The bicycle costs £180. How many weeks does Tom need to save to buy the bicycle?
- A. 10                      B. 11                      C. 12                      D. 13                      E. 14
35. If Tom has already saved £45, how many more weeks does he need to save to buy the bicycle?
- A. 5                          B. 6                          C. 7                          D. 8                          E. 9

Use the shape below to answer questions 36-37.



36. What is the perimeter of the shape above?
- A. 20cm                      B. 18cm                      C. 30cm                      D. 23cm                      E. 25.5cm
37. What is the area of the shape above?
- A. 50cm<sup>2</sup>                      B. 45cm<sup>2</sup>                      C. 40cm<sup>2</sup>                      D. 55cm<sup>2</sup>                      E. 25cm<sup>2</sup>
38. At a basketball game, the attendance was 18,621. Round 18,621 to the nearest 10.
- A. 18,600                      B. 18,630                      C. 18,700                      D. 18,620                      E. 18,650
39. Round 18,621 to the nearest 100.
- A. 18,600                      B. 19,000                      C. 18,700                      D. 18,650                      E. 18,000
40. At another basketball game, the attendance is given as 15,400 to the nearest 100. What is the greatest possible attendance at this match?
- A. 15,500                      B. 15,000                      C. 15,449                      D. 15,400                      E. 16,000

The data below shows the number of stickers Polly collected each day for a week. Use this data to answer questions 41-43.

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
8	9	13	7	6	13	12

41. What is the median?

- A. 5                      B. 6                      C. 7                      D. 8                      E. 9

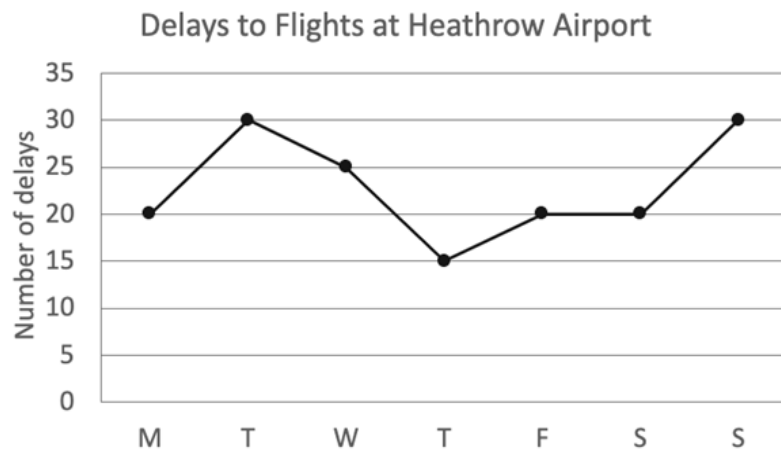
42. What is the range?

- A. 7                      B. 8                      C. 9                      D. 10                      E. 11

43. What is the mode?

- A. 12                      B. 13                      C. 7                      D. 9                      E. 8

Use the graph below to answer questions 44-46.



44. How many delays were there on Tuesday?

- A. 15                      B. 25                      C. 20                      D. 30                      E. 10

45. Which day had the fewest delays?

- A. Monday              B. Tuesday              C. Wednesday              D. Thursday              E. Friday

46. Which two days had the same number of delays?

- A. Mon & Wed              B. Thurs & Fri              C. Sat & Sun              D. Fri & Sat              E. Wed & Fri

47. Chandni has one £2 coin, two £1 coins, three 50 pence coins, four 5 pence coins and three pennies. How much money does she have altogether?

- A. £5.60                      B. £5.73                      C. £5.62                      D. £5.70                      E. £5.71

48. The local library is moving into a new building. Each packing box holds 80 books. They have 780 books in the non-fiction section. How many boxes will they need?
- A. 8                      B. 9                      C. 10                      D. 11                      E. 12
49. At a pie-eating contest, each of the 9 contestants ate  $\frac{1}{3}$  of a huge pie each. How many pies were eaten in total?
- A. 2                      B. 3                      C. 4                      D. 5                      E. 6
50.  **$4^4$  means  $4 \times 4 \times 4 \times 4$ .**

Choose the missing number to complete the calculation correctly.

$$\begin{array}{|c|} \hline 2 \\ \hline \end{array} \begin{array}{|c|} \hline ? \\ \hline \end{array} = \begin{array}{|c|c|} \hline 6 & 4 \\ \hline \end{array}$$

- A. 2                      B. 3                      C. 4                      D. 5                      E. 6

End of Test

# Mock Paper C Maths – Answer Sheet

Candidate's Name:

School Name:

DATE OF TEST					
Day		Month		Year	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

DATE OF BIRTH					
Day		Month		Year	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Please mark the boxes with a thin horizontal line like this . Rub out mistakes thoroughly.

<b>1</b>	A <input type="checkbox"/>
	B <input type="checkbox"/>
	C <input type="checkbox"/>
	D <input type="checkbox"/>
	E <input type="checkbox"/>

<b>2</b>	A <input type="checkbox"/>
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	C <input type="checkbox"/>
	D <input type="checkbox"/>
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<b>3</b>	A <input type="checkbox"/>
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<b>4</b>	A <input type="checkbox"/>
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<b>5</b>	A <input type="checkbox"/>
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	C <input type="checkbox"/>
	D <input type="checkbox"/>
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<b>6</b>	A <input type="checkbox"/>
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<b>7</b>	A <input type="checkbox"/>
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<b>8</b>	A <input type="checkbox"/>
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<b>9</b>	A <input type="checkbox"/>
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<b>10</b>	A <input type="checkbox"/>
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<b>11</b>	A <input type="checkbox"/>
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<b>12</b>	A <input type="checkbox"/>
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<b>13</b>	A <input type="checkbox"/>
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<b>14</b>	A <input type="checkbox"/>
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<b>15</b>	A <input type="checkbox"/>
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<b>16</b>	A <input type="checkbox"/>
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<b>17</b>	A <input type="checkbox"/>
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<b>18</b>	A <input type="checkbox"/>
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<b>19</b>	A <input type="checkbox"/>
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<b>20</b>	A <input type="checkbox"/>
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<b>21</b>	A <input type="checkbox"/>
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<b>22</b>	A <input type="checkbox"/>
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<b>24</b>	A <input type="checkbox"/>
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<b>25</b>	A <input type="checkbox"/>
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**26**

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**27**

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**28**

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**29**

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**30**

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**31**

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**32**

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**33**

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**34**

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**35**

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**36**

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**37**

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**38**

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**39**

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**40**

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**41**

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**42**

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**33**

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**44**

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**45**

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**46**

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**47**

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**48**

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**49**

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**50**

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