



EP.M138 GL Assessment Style Maths Mock Paper 4

GL ASSESSMENT GL-11PLUS-MOCK4 · Calculators not allowed · about 55 minutes

Total Marks

Name: _____ Date: ____ / ____ / ____

Answer ALL questions. Show all your working.

1 What is 7,203 rounded to the nearest 100?

- ☐ A) 7,200
- ☐ B) 7,300
- ☐ C) 7,000
- ☐ D) 7,250
- ☐ E) 7,205

(Total for Question 1 is 1 mark)

2 Write 3 and a quarter as an improper fraction.

(Total for Question 2 is 1 mark)

3 Calculate 48 divided by 6.

(Total for Question 3 is 1 mark)

4 Which number is a factor of both 18 and 30?

- ☐ A) 4
- ☐ B) 6
- ☐ C) 7
- ☐ D) 9
- ☐ E) 5

(Total for Question 4 is 1 mark)

- 5 A packet contains 250 g of cereal. A school buys 12 packets. Work out the total mass in kilograms.

(Total for Question 5 is 4 marks)

- 6 Priya walks 2.4 km to school and 1.8 km back home each day. How many kilometres does she walk in 5 school days?

(Total for Question 6 is 2 marks)

- 7 Write down the next prime number after 13.

(Total for Question 7 is 1 mark)

- 8 A recipe needs $\frac{3}{4}$ of a litre of milk. How many 250 ml measures are needed to give at least this amount?

(Total for Question 8 is 3 marks)

- 9 Which of these is the largest: 0.6, $\frac{2}{5}$, $\frac{3}{10}$, 0.55?

- ☐ A) 0.6
- ☐ B) $\frac{2}{5}$
- ☐ C) $\frac{3}{10}$
- ☐ D) 0.55
- ☐ E) All equal

(Total for Question 9 is 1 mark)

10 The angles in a triangle are in the ratio 2:3:4. Work out the size of the largest angle.

(Total for Question 10 is 2 marks)

11 A bus fare is £1.60. A family of two adults and three children travels on the bus. Adults pay full fare and children pay half fare. Work out the total cost.

(Total for Question 11 is 4 marks)

12 Complete the sequence: 5, 8, 11, 14, ____

(Total for Question 12 is 1 mark)

13 A rectangular garden measures 9 m by 6 m. A path of width 1 m runs all around inside the garden. Work out the area of the path.

(Total for Question 13 is 3 marks)

14 Convert 150 minutes into hours and minutes.

(Total for Question 14 is 2 marks)

15 A number is multiplied by 5 to give 275. What is the number?

(Total for Question 15 is 1 mark)

16 The prices in a sale are reduced by 15%. A jacket originally costs £60. Calculate the sale price.

(Total for Question 16 is 4 marks)

17 How many faces does a cuboid have?

- ☐ A) 6
- ☐ B) 8
- ☐ C) 12
- ☐ D) 4
- ☐ E) 10

(Total for Question 17 is 1 mark)

18 A survey shows 24 children prefer football, 15 prefer tennis and 11 prefer swimming. What fraction of the children prefer tennis? Give your answer in simplest form.

(Total for Question 18 is 2 marks)

19 Calculate the perimeter of a square with side length 6 cm.

(Total for Question 19 is 1 mark)

20 Solve the pair of equations by substitution or elimination: $x + y = 10$ and $x - y = 4$. Give the values of x and y .

(Total for Question 20 is 5 marks)

- 21** A school hall is 12 m long and 8 m wide. How many square metres of carpet are needed to cover the hall?

(Total for Question 21 is 2 marks)

- 22** A number is 3 more than twice another number. If the smaller number is 6, what is the larger number?

(Total for Question 22 is 1 mark)

- 23** The probability of rain on Monday is $\frac{1}{4}$ and on Tuesday is $\frac{1}{5}$. Assuming the events are independent, what is the probability it rains on both days? Give your answer as a fraction in simplest form.

(Total for Question 23 is 2 marks)

- 24** A map has scale 1 cm represents 250 m. A cyclist travels 6.5 km. How many centimetres on the map represent this journey? Give your answer to the nearest whole centimetre.

(Total for Question 24 is 5 marks)

25 A shopkeeper buys pencils in boxes. Each box contains 24 pencils and costs £7.20. He sells pencils individually at 40 p each. For a shipment of 15 boxes, calculate:

(a) How many pencils are there in 15 boxes? (2)

.....
(b) What is the total cost price for the 15 boxes? (2)

.....
(c) If he sells all 360 pencils at 40p each, what is his total revenue in pounds? (2)

.....
(d) Work out his profit or loss if he sells all pencils at 40p each. State whether it is a profit or a loss and give the amount. (3)

.....
(Total for Question 25 is 9 marks)

Mark scheme · EP.M138 GL Assessment Style Maths Mock Paper 4

Question 1

- **B1** Correct option A (7,200) cao
- **Answer: A) 7,200**

Question 2

- **B1** $13/4$ cao
- **Answer: $13/4$**

Question 3

- **B1** 8 cao
- **Answer: 8**

Question 4

- **B1** Correct option B (6) cao
- **Answer: B) 6**

Question 5

- **M1** Multiply 250 g by 12 seen or equivalent ($250 \times 12 = 3000$) shown
- **M1** Convert grams to kilograms method shown ($3000 \text{ g} = 3.000 \text{ kg}$) or divide by 1000
- **A1** 3 kg cao
- **B1** Accept 3.0 kg or 3 kg with correct working
- **Answer: 3 kg**

Question 6

- **M1** Total per day $2.4 + 1.8 = 4.2 \text{ km}$ seen
- **A1** $4.2 \times 5 = 21 \text{ km}$ cao
- **Answer: 21 km**

Question 7

- **B1** 17 cao
- **Answer: 17**

Question 8

- **M1** Convert $3/4$ litre to ml or realise $3/4 \text{ litre} = 750 \text{ ml}$
- **M1** Divide 750 by 250 or consider $250 \times 3 = 750$ seen
- **A1** 3 measures cao
- **Answer: 3**

Question 9

- **B1** Correct option A (0.6) cao
- **Answer: A) 0.6**

Question 10

- **M1** Method to sum ratio parts $2+3+4 = 9$ and form $180/9$ seen
- **A1** Largest angle $= 4 \times 20 = 80 \text{ degrees}$ cao
- **Answer: 80 degrees**

Question 11

- **M1** Identify adult fares: $2 \times 1.60 = 3.20$ or record full fares seen
- **M1** Identify child fare as half: $1.60 / 2 = 0.80$ and 3 children $\rightarrow 3 \times 0.80 = 2.40$
- **M1** Add adult and child totals: $3.20 + 2.40 = 5.60$
- **A1** £5.60 cao
- **Answer: £5.60**

Question 12

- **B1** 17 cao
- **Answer: 17**

Question 13

- **M1** Area of whole garden $9 \times 6 = 54 \text{ m}^2$ seen
- **M1** Inner rectangle dimensions $9-2$ by $6-2 = 7 \times 4 = 28 \text{ m}^2$ seen
- **A1** Area of path $54 - 28 = 26 \text{ m}^2$ cao
- **Answer: 26 m²**

Question 14

- **M1** Divide by 60 or recognise 120 minutes = 2 hours and remainder 30
- **A1** 2 hours 30 minutes cao
- **Answer: 2 hours 30 minutes**

Question 15

- **B1** 55 cao
- **Answer: 55**

Question 16

- **M1** Find 10% and 5% or compute 15% of 60: $10\% = 6$, $5\% = 3$ seen
- **M1** $15\% = 9$ shown
- **M1** Subtract from 60: $60 - 9 = 51$
- **A1** £51.00 cao
- **Answer: £51.00**

Question 17

- **B1** Correct option A(6) cao
- **Answer: A) 6**

Question 18

- **M1** Find total: $24 + 15 + 11 = 50$ or write fraction $15/50$
- **A1** Simplified $3/10$ cao
- **Answer: 3/10**

Question 19

- **B1** 24 cm cao
- **Answer: 24 cm**

Question 20

- **M1** Method to add or subtract equations to eliminate a variable seen
- **M1** Adding: $(x + y) + (x - y) = 10 + 4$ gives $2x = 14$ seen
- **M1** Solve for x: $x = 7$ shown
- **M1** Substitute $x = 7$ into $x + y = 10$ gives $y = 3$ seen
- **A1** $x = 7$, $y = 3$ cao
- **Answer: $x = 7$, $y = 3$**

Question 21

- **M1** Multiply 12×8 seen
- **A1** 96 m^2 cao
- **Answer: 96 m^2**

Question 22

- **B1** $2 \times 6 + 3 = 15$ cao
- **Answer: 15**

Question 23

- **M1** Multiply probabilities: $\frac{1}{4} \times \frac{1}{5} = \frac{1}{20}$ seen
- **A1** $\frac{1}{20}$ cao
- **Answer: $\frac{1}{20}$**

Question 24

- **M1** Convert 6.5 km to metres: $6.5 \times 1000 = 6500$ m seen
- **M1** Use scale: 1 cm = 250 m so divide 6500 by 250 or set up $6500/250$ seen
- **M1** Compute $6500 / 250 = 26$ seen
- **M1** State exact answer 26 cm or show understanding of rounding if needed
- **A1** 26 cm cao
- **Answer: 26 cm**

Question 25

- (a) **M1** Multiply 24×15 or equivalent seen
- (a) **A1** 360 pencils cao
- (a) **Answer: 360 pencils**
- (b) **M1** Multiply box cost 7.20×15 seen
- (b) **A1** £108.00 cao
- (b) **Answer: £108.00**
- (c) **M1** Multiply 360×0.40 or $360 \times 40p$ seen
- (c) **A1** £144.00 cao
- (c) **Answer: £144.00**
- (d) **M1** Compute revenue - cost: $144.00 - 108.00$ attempted
- (d) **M1** Find difference = 36.00 shown
- (d) **A1** State profit of £36.00 cao
- (d) **Answer: Profit of £36.00**