



EP.M157 Buckinghamshire Style Maths Paper 1

GL ASSESSMENT BUCKS-MOCK-1 · Calculators not allowed · about 55 minutes

Total Marks

Name: _____ Date: ____ / ____ / ____

Answer ALL questions. Show all your working.

- 1 Write down the value of the digit 7 in the number 3,764.

(Total for Question 1 is 1 mark)

- 2 A ribbon is 2.4 metres long. How many centimetres long is the ribbon?

(Total for Question 2 is 1 mark)

- 3 Calculate $\frac{5}{8}$ of 56.

(Total for Question 3 is 2 marks)

- 4 Sofia buys 7 notebooks at 85 p each and a pencil for 55 p. Work out how much she spends in total in pounds and pence.

(Total for Question 4 is 2 marks)

- 5 A rectangular garden has length 12 m and width 7 m. Calculate the perimeter of the garden.

(Total for Question 5 is 2 marks)

6 Round 6.283 to 2 decimal places.

(Total for Question 6 is 1 mark)

7 Complete the sequence: 3, 6, 12, 24, ____.

(Total for Question 7 is 2 marks)

8 The angles in a triangle are in the ratio 2 : 3 : 4. Find the size of the largest angle.

(Total for Question 8 is 3 marks)

9 A school collects 240 cans for charity. If they place the cans into stacks of 6, how many full stacks can they make?

(Total for Question 9 is 2 marks)

10 A bag contains red, blue and green counters in the ratio 5 : 3 : 2. There are 50 red counters. How many counters are there altogether?

(Total for Question 10 is 3 marks)

11 Expand and simplify: $3(x + 4)$.

(Total for Question 11 is 2 marks)

- 12** A cinema sells adult tickets for £8 and child tickets for £5. On one night it sold 120 tickets and took £720. How many adult tickets were sold?

(Total for Question 12 is 2 marks)

- 13** A triangular field has base 30 m and height 16 m. Calculate its area in square metres.

(Total for Question 13 is 3 marks)

- 14** A number minus 9 equals 14. What is the number?

(Total for Question 14 is 2 marks)

- 15** Three friends share £27 in the ratio 2 : 3 : 4. How much does the friend with the largest share receive?

(Total for Question 15 is 3 marks)

- 16** The product of two consecutive integers is 56. Find the integers.

(Total for Question 16 is 2 marks)

- 17** A recipe needs 250 g of flour for 4 people. How much flour is needed for 10 people?

(Total for Question 17 is 2 marks)

18 A bus journey takes 2 hours 15 minutes. What is this time in minutes?

(Total for Question 18 is 2 marks)

Mark scheme • EP.M157 Buckinghamshire Style Maths Paper 1

Question 1

- **B1** correct value 700 cao
- **Answer: 700**

Question 2

- **B1** 240 cm cao
- **Answer: 240 cm**

Question 3

- **M1** method: $\frac{1}{8}$ of 56 = 7 or equivalent method
- **A1** $5 \times 7 = 35$ cao
- **Answer: 35**

Question 4

- **M1** correct multiplication $7 \times 85 = 595$ p seen or equivalent
- **A1** total $595 + 55 = 650$ p = £6.50 cao
- **Answer: £6.50**

Question 5

- **M1** method adding two lengths and two widths or $2 \times (12 + 7)$ seen
- **A1** perimeter = $2 \times (12 + 7) = 38$ m cao
- **Answer: 38 m**

Question 6

- **B1** 6.28 cao
- **Answer: 6.28**

Question 7

- **M1** recognition of pattern multiply by 2 seen
- **A1** next term 48 cao
- **Answer: 48**

Question 8

- **M1** method: sum parts $2 + 3 + 4 = 9$ and $180/9$ or equivalent seen
- **M1** method: size of one part $180/9 = 20$ or equivalent
- **A1** largest angle = $4 \times 20 = 80$ degrees cao
- **Answer: 80 degrees**

Question 9

- **M1** division $240 / 6$ seen
- **A1** full stacks = 40 cao
- **Answer: 40**

Question 10

- **M1** method: value of one part from 5 parts = 50 so 1 part = 10 or equivalent
- **M1** method: total parts $5 + 3 + 2 = 10$ or equivalent
- **A1** total counters = $10 \times 10 = 100$ cao
- **Answer: 100**

Question 11

- **M1** expansion $3x + 12$ or equivalent seen
- **A1** $3x + 12$ cao
- **Answer: $3x + 12$**

Question 12

- **M1** method: let adult = a , child = $120 - a$ and set up $8a + 5(120 - a) = 720$ or equivalent
- **A1** adult tickets = 40 cao
- **Answer: 40**

Question 13

- **M1** method: area = $\frac{1}{2} \times \text{base} \times \text{height}$ seen
- **M1** substitution $\frac{1}{2} \times 30 \times 16 = 15 \times 16$ seen
- **A1** area = 240 m^2 cao
- **Answer: 240 m^2**

Question 14

- **M1** method: add 9 to both sides or equivalent
- **A1** number = 23 cao
- **Answer: 23**

Question 15

- **M1** method: total parts $2 + 3 + 4 = 9$ or equivalent
- **M1** method: 1 part = $27/9 = 3$ or equivalent
- **A1** largest share = $4 \times 3 = £12$ cao
- **Answer: £12**

Question 16

- **M1** method: try factor pairs of 56 or set $n(n+1)=56$ and attempt integer solution
- **A1** integers are 7 and 8 cao
- **Answer: 7 and 8**

Question 17

- **M1** method: scale up proportion $250/4 \times 10$ or equivalent
- **A1** amount = 625 g cao
- **Answer: 625 g**

Question 18

- **M1** method: 2 hours = 120 minutes and add 15 minutes
- **A1** total = 135 minutes cao
- **Answer: 135 minutes**