



EP.M155 Kent Test Style Maths Paper 2

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

Total Marks

Name: _____ Date: ____ / ____ / ____

Answer ALL questions. Show all your working.

- 1** A car park has 142 spaces. In the morning 87 spaces are occupied. How many spaces are empty?

(Total for Question 1 is 1 mark)

- 2** Write $\frac{3}{5}$ as a decimal.

(Total for Question 2 is 1 mark)

- 3** Amira buys 4 packets of sweets. Each packet costs 75p. How much does she spend in total?

(Total for Question 3 is 1 mark)

- 4** A rectangle is 14 cm long and 6 cm wide. Calculate its perimeter.

(Total for Question 4 is 2 marks)

- 5** A recipe needs 250 g of flour. Mina wants to make 3 batches. How much flour does she need in total?

(Total for Question 5 is 2 marks)

6 Complete the sequence: 7, 11, 15, 19, __, __

(Total for Question 6 is 2 marks)

7 A school collects 432 cans for a food bank. They pack them into stacks of 12. How many stacks do they make?

(Total for Question 7 is 2 marks)

8 A discount of 15% is applied to a toy priced at £28.50. Calculate the sale price, to the nearest penny.

(Total for Question 8 is 2 marks)

9 Write 4500 in standard form.

(Total for Question 9 is 2 marks)

10 A number is multiplied by 6 to give 288. What is the number?

(Total for Question 10 is 2 marks)

- 11** Ali plans a garden in the shape of an L. The L is made from two rectangles: one is 8 m by 4 m, the other is 6 m by 3 m. Calculate the total area of the L-shaped garden in square metres.

(Total for Question 11 is 4 marks)

- 12** The scale on a map is 1 cm : 2 km. On the map, two towns are 7.5 cm apart. Work out the actual distance between the towns in kilometres.

(Total for Question 12 is 4 marks)

- 13** A number chain: start at 48. Step 1: divide by 3. Step 2: subtract 4. Step 3: multiply by 5. What is the final result?

(Total for Question 13 is 3 marks)

- 14** A crate holds 4 boxes. Each box holds 9 jars. How many jars are there in 7 crates?

(Total for Question 14 is 3 marks)

- 15** Write down all the factors of 36.

(Total for Question 15 is 3 marks)

16 A bus journey takes 2 hours 35 minutes. What is this time in minutes?

(Total for Question 16 is 3 marks)

17 A number is increased by 25% to make 150. Work out the original number.

(Total for Question 17 is 3 marks)

18 A right-angled triangle has sides 6 cm and 8 cm as the short sides. Calculate the length of the hypotenuse, to one decimal place.

(Total for Question 18 is 3 marks)

19 A class of 28 pupils voted for three sports. 11 chose football, 9 chose netball and the rest chose cricket. How many pupils chose cricket?

(Total for Question 19 is 3 marks)

20 Solve the equation $3x + 7 = 28$. Give the value of x .

(Total for Question 20 is 4 marks)

Mark scheme • EP.M155 Kent Test Style Maths Paper 2

Question 1

- **B1** 55 cao
- **Answer:** 55 empty spaces

Question 2

- **B1** 0.6 cao
- **Answer:** 0.6

Question 3

- **B1** £3.00 cao
- **Answer:** £3.00

Question 4

- **M1** Method: $2 \times (14 + 6)$ or $2 \times 14 + 2 \times 6$ seen
- **A1** 40 cm cao
- **Answer:** 40 cm

Question 5

- **M1** $250 \times 3 (= 750)$ seen
- **A1** 750 g cao
- **Answer:** 750 g

Question 6

- **M1** Pattern of +4 identified or next term 23 seen
- **A1** 23, 27 cao
- **Answer:** 23, 27

Question 7

- **M1** Division $432 \div 12$ attempted
- **A1** 36 stacks cao
- **Answer:** 36 stacks

Question 8

- **M1** Method: 15% of 28.50 or 0.85×28.50 seen
- **A1** £24.23 cao
- **Answer:** £24.23

Question 9

- **M1** Method: $4500 = 4.5 \times 10^3$ stated or equivalent
- **A1** 4.5×10^3 cao
- **Answer:** 4.5×10^3

Question 10

- **M1** Method: $288 \div 6$ seen
- **A1** 48 cao
- **Answer:** 48

Question 11

- **M1** Area of first rectangle: $8 \times 4 = 32$ or equivalent seen
- **M1** Area of second rectangle: $6 \times 3 = 18$ or equivalent seen
- **M1** Sum of areas attempted
- **A1** 50 m^2 cao
- **Answer: 50 m^2**

Question 12

- **M1** Method: multiply 7.5 by 2 or equivalent
- **M1** Calculation: $7.5 \times 2 = 15$ or written method
- **M1** Units conversion or statement km (showing understanding of scale)
- **A1** 15 km cao
- **Answer: 15 km**

Question 13

- **M1** Division $48 \div 3 = 16$ seen
- **M1** Subtraction $16 - 4 = 12$ seen
- **A1** 60 cao
- **Answer: 60**

Question 14

- **M1** Method: jars per crate = $4 \times 9 = 36$ or equivalent
- **M1** Multiply by 7: 36×7 attempted
- **A1** 252 jars cao
- **Answer: 252 jars**

Question 15

- **M1** Some correct factors listed (e.g. 1, 2, 3, 4) seen
- **M1** More correct factors shown (e.g. 6, 9) or pairs used
- **A1** Complete list: 1, 2, 3, 4, 6, 9, 12, 18, 36 cao
- **Answer: 1, 2, 3, 4, 6, 9, 12, 18, 36**

Question 16

- **M1** Convert hours to minutes: $2 \times 60 = 120$ seen
- **M1** Add minutes: $120 + 35$ attempted
- **A1** 155 minutes cao
- **Answer: 155 minutes**

Question 17

- **M1** Understand increased value: original $\times 1.25 = 150$ or equivalent
- **M1** Divide $150 \div 1.25$ or use fraction: $150 \times \frac{4}{5}$ attempted
- **A1** 120 cao
- **Answer: 120**

Question 18

- **M1** Use Pythagoras: $\text{hyp}^2 = 6^2 + 8^2$ or $36 + 64$
- **M1** Add correctly: $36 + 64 = 100$ seen
- **A1** Hypotenuse = 10.0 cm cao
- **Answer: 10.0 cm**

Question 19

- **M1** Sum of known votes: $11 + 9 = 20$ or equivalent
- **M1** $28 - 20$ attempted
- **A1** 8 cao
- **Answer: 8 pupils**

Question 20

- **M1** Subtract 7 from both sides: $3x = 21$ or equivalent
- **M1** Divide both sides by 3: $x = 7$ attempted
- **A1** $x = 7$ cao
- **B1** Independent check or clear statement that $x = 7$ satisfies $3x + 7 = 28$
- **Answer: $x = 7$**