



EP.M150 CSSE Essex Style Maths Paper 2

CSSE CSSE-MOCK-2 · Calculators not allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / ____

Answer ALL questions. Show all your working.

- 1** A toy car costs £3.75. Josie buys 8 toy cars and pays with a £50 note. Work out how much change she should receive.

(Total for Question 1 is 2 marks)

- 2** A rectangle has length 12 cm and width 7 cm. Work out (a) its perimeter and (b) its area.

(a) Calculate the perimeter.

(1)

(b) Calculate the area.

(1)

(Total for Question 2 is 2 marks)

- 3** A recipe needs $\frac{3}{4}$ of a kilogram of flour to make 12 scones. How much flour is needed to make 20 scones?

(Total for Question 3 is 3 marks)

- 4 A bus departs at 08:15 and travels for 2 hours 40 minutes to reach the next town. It then waits for 25 minutes before continuing for another 1 hour 15 minutes. At what time does the bus arrive at its final destination?

(Total for Question 4 is 3 marks)

- 5 A number sequence begins 6, 11, 18, 27, ... Find the next two terms.

(Total for Question 5 is 2 marks)

- 6 A school fundraiser sells raffle tickets at £2.50 each. On the first day they sell 48 tickets and on the second day they sell 76 tickets. They donate 15% of total receipts to a charity. (a) Calculate the total money raised. (b) Calculate the amount donated to charity, to the nearest £.

(Total for Question 6 is 3 marks)

- 7 A triangular garden has a base of 8 m and a perpendicular height of 6 m. (a) Find the area of the triangle. (b) If turf costs £4.20 per square metre, how much will it cost to turf the garden? Give your answer to the nearest pound.

(Total for Question 7 is 3 marks)

- 8** Oliver has £15. He spends $\frac{3}{5}$ of it on a book and then spends half of the remaining money on a snack. How much money does he have left?

(Total for Question 8 is 3 marks)

- 9** A line of symmetry divides a regular hexagon into two equal halves. How many lines of symmetry does a regular hexagon have?

(Total for Question 9 is 2 marks)

Mark scheme · EP.M150 CSSE Essex Style Maths Paper 2

Question 1

- **M1** Multiply 3.75 by 8 or equivalently 375p x 8 seen
- **A1** Correct change: £20.00 cao
- **Answer: £20.00**

Question 2

- (a) **B1** Perimeter $2(12+7) = 38$ cm cao
- (a) **Answer: 38 cm**
- (b) **B1** Area $12 \times 7 = 84$ cm² cao
- (b) **Answer: 84 cm²**

Question 3

- **M1** Find flour per scone: $(3/4)/12$ or $3/4 \times 1/12$ seen
- **M1** Multiply per-scone amount by 20: $(3/4) \times (20/12)$ or equivalent
- **A1** Correct answer $5/4$ kg or $1 \frac{1}{4}$ kg cao
- **Answer: 5/4 kg (1 1/4 kg)**

Question 4

- **M1** Add first journey 2 h 40 min to 08:15 giving 10:55 or equivalent
- **M1** Add waiting 25 min to get 11:20
- **A1** Add final 1 h 15 min to get 12:35 cao
- **Answer: 12:35**

Question 5

- **M1** Identify rule: differences 5, 7, 9 so next differences 11 and 13 seen
- **A1** Correct next terms 38 and 51 cao
- **Answer: 38, 51**

Question 6

- **M1** Find total tickets $48 + 76 = 124$ and multiply by 2.50 or 250p x 124 seen
- **M1** Compute $124 \times 2.50 = £310$ seen
- **A1** 15% of £310 = £46.50 rounded to £47 cao
- **Answer: (a) £310 (b) £47**

Question 7

- **M1** Area = $1/2 \times \text{base} \times \text{height} = 1/2 \times 8 \times 6$ seen
- **M1** Area = 24 m² seen
- **A1** cost = $24 \times 4.20 = £100.80 \rightarrow £101$ (nearest pound) cao
- **Answer: (a) 24 m² (b) £101**

Question 8

- **M1** $3/5$ of £15 = £9 spent on book seen
- **M1** Remaining after book £15 - £9 = £6 then half spent on snack = £3 seen
- **A1** Money left = £3 cao
- **Answer: £3**

Question 9

- **M1** State that there are lines through opposite vertices and lines through midpoints of opposite sides seen (method)
- **A1** Correct number: 6 cao
- **Answer: 6 lines of symmetry (6)**