2.101 Bar Charts and Pictograms in Depth: 10-minute Pack

Total Marks

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 The bar chart shows four categories A, B, C and D with values 8, 16, 4 and 12 respectively. Which bar shows twice as many as category C?

- ☐ A) A
- ☐ B) B
- ☐ C) C
- ☐ D) D
- ☐ E) none of these

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2 A pictogram shows cakes baked. Each symbol stands for 20 cakes. The number of symbols is: Monday: 2 symbols, Tuesday: 4.5 symbols, Wednesday: 2 symbols, Thursday: 5 symbols, Friday: 5.5 symbols. How many more cakes are shown for the highest day than the lowest day?

- ☐ A) 60
- ☐ B) 150
- ☐ C) 3.5
- ☐ D) 70
- ☐ E) 110

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3 A pictogram shows books borrowed. Each symbol stands for 4 books. The number of symbols is: Monday: 5.5 symbols, Tuesday: 4.5 symbols, Wednesday: 2.5 symbols. How many more books are shown for the highest day than the lowest day?

- ☐ A) 10
- ☐ B) 22
- ☐ C) 12
- ☐ D) 11
- ☐ E) 3

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4 A bar chart shows visits to a museum in a week: Adult 45, Child 27. Give the ratio of Adult visits to Child visits in its simplest form.

(2)

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5 The bar chart shows how many blue and green pencils a shop sold in a week. Blue 72, Green 58. Work out how many more blue pencils were sold than green pencils.

(2)

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6 A bar chart of favourite fruit shows: Apples 9, Bananas 6, Cherries 4, Grapes 6. Which fruit is the mode of the data?

(1)

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7 A survey bar chart shows the number of pupils who chose Swimming as their favourite sport is 28. If next year the number of pupils choosing Swimming increases by 25%, how many pupils will choose it next year?

(3)

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Mark scheme · 2.101 Bar Charts and Pictograms in Depth: 10-minute Pack

A correct answer earns full marks unless the question asks for working, a method, proof or explanation.

Question 1

correct option A (8 is twice C's 4) cao **B1**

Answer:A) A

Working check: Category C = 4, twice C = 8. Category A = 8, so A is the bar showing twice as many as C.

Question 2

correct option D (70) cao **B1**

Answer: D) 70

Question 3

correct option C (12) cao **B1**

Answer: C) 12

Question 4

ratio 45:27 or equivalent seen **M1**

5:3 cao **A1**

Answer:5:3

Working check: 45:27 divide both by 9 gives 5:3.

Question 5

subtraction 72 - 58 or equivalent method seen **M1**

14 cao **A1**

Answer:14

Working check: 72 - 58 = 14.

Question 6

Apples cao **B1**

Answer:Apples

Working check: Apples occur most often (9), so mode = Apples.

Question 7

correct finding of 25% of 28 (=7) or equivalent **M1**

adding 28 + 7 = 35 seen **M1**

35 cao **A1**

Answer:35

Working check: 25% of 28 = 0.25 x 28 = 7. 28 + 7 = 35.

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