2.27-2 Data Handling and Averages Depth Set 2: 10-minute Pack

GL ASSESSMENT EP.M38 · Calculators not allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

Data Handling and Averages Depth Set 2

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A second 11+ statistics and data-handling paper for scholarship-level preparation, complementing EP.M7 (Averages) and EP.M27 (Data Handling and Averages Depth). It covers reading and interpreting pictograms, tally charts, bar charts, line graphs, frequency tables, timetables and pie charts, calculating the mean, median, mode and range, and simple probability, including probability from two-way tables. Questions are ramped from straightforward reading-off items to demanding multi-step and reverse-reasoning problems designed to stretch the strongest candidates.

1 Mr Patel, a shopkeeper, recorded the number of emails he received each day for 6 days: 11, 8, 11, 14, 8, 11.

What is the mode of these values?

- ☐ A) 8
- ☐ B) 11
- ☐ C) 14
- ☐ D) 10
- ☐ E) 12

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2 The lengths of six phone calls made by Priya, in minutes, were: 4, 19, 7, 2, 15, 11.

Find the range of these lengths.

- ☐ A) 2
- ☐ B) 11
- ☐ C) 15
- ☐ D) 17
- ☐ E) 19

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3 The resting heart rates (in beats per minute) of 7 athletes at a training camp were recorded: 58, 72, 65, 60, 77, 63, 68.

Find the median heart rate.

(2)

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4 The prices of five second-hand books bought by Oliver at a car boot sale were: £2, £5, £3, £6, £4.

Calculate the mean price.

(2)

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5 The mean temperature recorded over 6 days in a town was 9°C. On five of the days the temperatures were 7, 11, 6, 12 and 8°C.

Find the temperature on the sixth day.

(3)

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6 Kai spins a fair spinner with 10 equal sections, numbered 1 to 10.

What is the probability that the spinner lands on a number that is NOT a factor of 12?

(2)

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Mark scheme · 2.27-2 Data Handling and Averages Depth Set 2: 10-minute Pack

Question 1

B (11) cao	**B1**

Answer: B) 11

Question 2

D (17) cao	**B1**

Answer: D) 17 minutes

Question 3

values correctly ordered: 58, 60, 63, 65, 68, 72, 77	**M1**
65 cao	**A1**

Answer: 65 beats per minute

Question 4

sum = 20 oe	**M1**
4 cao	**A1**

Answer: £4

Question 5

total of six temperatures = 9 x 6 = 54	**M1**
dependent on the previous mark: sum of the given five = 7 + 11 + 6 + 12 + 8 = 44, then 54 - 44	**dM1**
10 cao	**A1**

Answer: 10°C

Question 6

factors of 12 from 1 to 10 identified as 1, 2, 3, 4, 6 (5 outcomes), or P(factor of 12) = 5/10	**M1**
1/2 oe cso	**A1**

Answer: 1/2

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