2.27 Data Handling and Averages Depth: 10-minute Pack

Total Marks

GL ASSESSMENT EP.M27 · Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

Data Handling and Averages Depth

Revision Library

An 11+ statistics and data-handling paper for scholarship-level preparation, complementing EP.M7 (Averages). It covers reading and interpreting pictograms, bar charts, line graphs, pie charts, tally charts and tables, 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 Freya recorded the number of goals she scored in her last 7 hockey matches: 4, 7, 4, 9, 2, 4, 7.

What is the mode of her scores?

- ☐ A) 2
- ☐ B) 4
- ☐ C) 6
- ☐ D) 7
- ☐ E) 9

---

2 Kwame timed how long, in minutes, it took him to walk to school on 6 different days: 15, 8, 22, 3, 17, 11.

Find the range of his times.

- ☐ A) 3
- ☐ B) 14
- ☐ C) 19
- ☐ D) 22
- ☐ E) 25

© Revision Library | revisionlibrary.co.uk

3 Priya's test scores in her last five spelling tests were: 9, 4, 15, 7, 11.

Find the median score.

(2)

---

4 Siobhan's marks in her last five mental maths quizzes were: 5, 9, 3, 11, 7.

Calculate her mean mark.

(2)

---

5 The mean of five numbers chosen by Mohammed is 8. Four of the numbers are 6, 9, 4 and 10.

Find the fifth number.

(3)

---

6 Ibrahim spins a fair spinner with 8 equal sections, numbered 1 to 8.

What is the probability that the spinner lands on a number that is NOT a multiple of 3?

(2)

© Revision Library | revisionlibrary.co.uk

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

Question 1

B (4) cao	**B1**

Answer: B) 4

Question 2

C (19) cao	**B1**

Answer: C) 19 minutes

Question 3

scores correctly ordered: 4, 7, 9, 11, 15	**M1**
9 cao	**A1**

Answer: 9

Question 4

sum = 35 oe	**M1**
7 cao	**A1**

Answer: 7

Question 5

total of five numbers = 8 x 5 = 40	**M1**
dependent on the previous mark: sum of the given four = 6 + 9 + 4 + 10 = 29, then 40 - 29	**dM1**
11 cao	**A1**

Answer: 11

Question 6

multiples of 3 identified as 3 and 6 (2 outcomes), or P(multiple of 3) = 2/8	**M1**
3/4 oe cso	**A1**

Answer: 3/4

© Revision Library | revisionlibrary.co.uk