# 2.103 Mean, Median, Mode and Range 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** What is the mean of 2, 4, 6 and 8?

- ☐ A) 4
- ☐ B) 5
- ☐ C) 6
- ☐ D) 10
- ☐ E) 20

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**2** Which list of numbers has no mode?

- ☐ A) 2, 3, 4
- ☐ B) 1, 1, 2
- ☐ C) 3, 4, 3
- ☐ D) 5, 5, 5
- ☐ E) 6, 7, 6

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**3** Find the mean and the median of these five decimal numbers: 2.5, 3.0, 4.2, 3.8 and 2.5.

**(3)**


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**4** For the list 4, 4, 5, 6, 9, find the mode, the range and the mean.

**(3)**

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**5** Three of the numbers in a set are 6, 9 and 5. The mean of the four numbers is 7. Find the fourth number.

**(3)**


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# Mark scheme · 2.103 Mean, Median, Mode and Range in Depth: 10-minute Pack

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

## Question 1

| | |
|---|---|
| option B (mean = (2+4+6+8)/4 = 20/4 = 5) cao | **B1** |

**Answer: B) 5**

## Question 2

| | |
|---|---|
| option A (all values different so there is no mode) cao | **B1** |

**Answer: A) 2, 3, 4**

## Question 3

| | |
|---|---|
| Correct total or mean method seen (sum = 16.0, mean = 16.0/5) | **M1** |
| Mean = 3.2 cao | **A1** |
| Median = 3.0 (sorted: 2.5, 2.5, 3.0, 3.8, 4.2) cao | **B1** |

**Answer: Mean = 3.2, Median = 3.0**

## Question 4

| | |
|---|---|
| Method for mean seen (sum 4+4+5+6+9 = 28) or equivalent | **M1** |
| Mean = 28/5 = 5.6 cao | **A1** |
| Mode = 4 and Range = 9 - 4 = 5 (either may be awarded as independent correct) cao | **B1** |

**Answer: Mode = 4, Range = 5, Mean = 5.6**

## Question 5

| | |
|---|---|
| Equation for total 4*7 = 28 or equivalent method seen | **M1** |
| Sum of known numbers subtracted: 28 - (6+9+5) = 28 - 20 | **M1** |
| Fourth number = 8 cao | **A1** |

**Answer: 8 (since 4*7 = 28 and 28 - (6+9+5) = 8).**


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