2.103 Mean, Median, Mode and Range in Depth: 30-minute Pack

Total Marks

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 30 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Find the range of the numbers 12, 4, 9 and 15.

- ☐ A) 3
- ☐ B) 7
- ☐ C) 11
- ☐ D) 15
- ☐ E) 27

---

2 Find the median of these four numbers: 2, 5, 9 and 11.

- ☐ A) 5
- ☐ B) 6
- ☐ C) 7
- ☐ D) 8
- ☐ E) 9

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3 Here are some numbers: 11, 14, 25, 14, 31, 21, 28. What is the range?

- ☐ A) 19
- ☐ B) 21
- ☐ C) 11
- ☐ D) 31
- ☐ E) 20

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4 The mean score in 6 tests is 37. After one more test the mean score is 40. What was the score in the last test?

- [ ] A) 18
- [ ] B) 58
- [ ] C) 57
- [ ] D) 40
- [ ] E) 280

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5 The values for marks in spelling tests are 41, 45, 5, 37. What is the mean?

- [ ] A) 32
- [ ] B) 33
- [ ] C) 128
- [ ] D) 39
- [ ] E) 25.6

---

6 What is the median of these 6 numbers? 9, 98, 39, 24, 117, 74

- [ ] A) 31.5
- [ ] B) 57.5
- [ ] C) 56.5
- [ ] D) 39
- [ ] E) 74

---

7 Ethan scores 15, 12, 13, 16, 7 in 5 games. Ethan wants a mean score of 14 over 6 games. What must Ethan score in the last game?

- [ ] A) 84
- [ ] B) 14
- [ ] C) 35
- [ ] D) 21
- [ ] E) 20

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8 Here are some numbers: 25, 27, 38, 36, 29, 4, 23, 5, 38. What is the mode?

- ☐ A) 27
- ☐ B) 2
- ☐ C) 38
- ☐ D) 25
- ☐ E) 4

---

9 The mean score in 8 games is 38. After one more game the mean score is 40. What was the score in the last game?

- ☐ A) 56
- ☐ B) 40
- ☐ C) 22
- ☐ D) 57
- ☐ E) 360

---

10 What is the median of these 9 numbers? 20, 12, 34, 8, 10, 39, 6, 36, 27

- ☐ A) 19
- ☐ B) 10
- ☐ C) 12
- ☐ D) 20
- ☐ E) 27

---

11 Sienna scores 15, 20, 13, 11 in 4 games. Sienna wants a mean score of 13 over 5 games. What must Sienna score in the last game?

- ☐ A) 5
- ☐ B) 6
- ☐ C) 65
- ☐ D) 13
- ☐ E) 19

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12 Here are some numbers: 48, 112, 1, 1, 27, 8, 36, 56. What is the range?

- ☐ A) 36.125
- ☐ B) 112
- ☐ C) 111
- ☐ D) 1
- ☐ E) 110

---

13 The mean score in 3 tests is 11. After one more test the mean score is 10. What was the score in the last test?

- ☐ A) 8
- ☐ B) 7
- ☐ C) 40
- ☐ D) 10
- ☐ E) 6

---

14 Here are 3 numbers: 38, 44, 8. What is the mean?

- ☐ A) 22.5
- ☐ B) 38
- ☐ C) 45
- ☐ D) 90
- ☐ E) 30

---

15 What is the median of these 8 numbers? 28, 37, 1, 9, 2, 21, 21, 20

- ☐ A) 17.375
- ☐ B) 5.5
- ☐ C) 20
- ☐ D) 20.5
- ☐ E) 19.5

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16 Ewan scores 12, 10, 5, 12, 15, 5, 7 in 7 games. Ewan wants a mean score of 9 over 8 games. What must Ewan score in the last game?

- ☐ A) 6
- ☐ B) 7
- ☐ C) 3
- ☐ D) 9
- ☐ E) 72

---

17 The mean score in 6 games is 9. After one more game the mean score is 13. What was the score in the last game?

- ☐ A) 91
- ☐ B) 38
- ☐ C) 13
- ☐ D) 24
- ☐ E) 37

---

18 The values for the ages of members of a swimming club are 4, 4, 6, 9, 11, 1, 4, 9. What is the mean?

- ☐ A) 6
- ☐ B) 7
- ☐ C) 48
- ☐ D) 10
- ☐ E) 5

---

19 What is the median of these 7 numbers? 68, 23, 105, 118, 89, 62, 89

- ☐ A) 68
- ☐ B) 89
- ☐ C) 90
- ☐ D) 88
- ☐ E) 118

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20 Fatima scores 36, 20, 25 in 3 games. Fatima wants a mean score of 37 over 4 games. What must Fatima score in the last game?

- ☐ A) 72
- ☐ B) 104
- ☐ C) 67
- ☐ D) 37
- ☐ E) 148

---

21 Here are some numbers: 11, 10, 12, 11, 17, 27, 15, 37, 34. What is the mode?

- ☐ A) 37
- ☐ B) 12
- ☐ C) 10
- ☐ D) 11
- ☐ E) 15

---

22 The mean score in 3 tests is 33. After one more test the mean score is 30. What was the score in the last test?

- ☐ A) 21
- ☐ B) 120
- ☐ C) 20
- ☐ D) 22
- ☐ E) 30

---

23 What is the median of these 5 numbers? 19, 28, 64, 1, 106

- ☐ A) 43.6
- ☐ B) 28
- ☐ C) 29
- ☐ D) 64
- ☐ E) 27

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24 Tom scores 9, 8, 12, 18, 15, 8, 8 in 7 games. Tom wants a mean score of 11 over 8 games. What must Tom score in the last game?

- ☐ A) 11
- ☐ B) 21
- ☐ C) -1
- ☐ D) 88
- ☐ E) 10

---

25 Here are some numbers: 1, 34, 2, 29, 29. What is the range?

- ☐ A) 33
- ☐ B) 19
- ☐ C) 35
- ☐ D) 34
- ☐ E) 1

---

26 The values for points scored in netball matches are 34, 32, 32, 67, 54, 104, 84, 81. What is the mean?

- ☐ A) 62
- ☐ B) 61
- ☐ C) 488
- ☐ D) 60.5
- ☐ E) 72

---

27 What is the median of these 9 numbers? 20, 40, 14, 27, 10, 15, 11, 1, 6

- ☐ A) 13
- ☐ B) 15
- ☐ C) 14
- ☐ D) 16
- ☐ E) 10

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28 Tom scores 23, 30, 16, 24 in 4 games. Tom wants a mean score of 26 over 5 games. What must Tom score in the last game?

- ☐ A) 42
- ☐ B) 130
- ☐ C) 26
- ☐ D) 63
- ☐ E) 37

---

29 The mean score in 8 tests is 22. After one more test the mean score is 25. What was the score in the last test?

- ☐ A) 49
- ☐ B) 25
- ☐ C) 50
- ☐ D) 24
- ☐ E) 225

---

30 Here are 3 numbers: 15, 17, 22. What is the mean?

- ☐ A) 17
- ☐ B) 18
- ☐ C) 54
- ☐ D) 19
- ☐ E) 27

---

31 Calculate the mean of these five numbers: 3, 7, 4, 8 and 8.

(2)

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Mark scheme · 2.103 Mean, Median, Mode and Range in Depth: 30-minute Pack

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

Question 1

option C (range = 15 - 4 = 11) cao **B1**

Answer: C) 11

Question 2

option C (median = (5+9)/2 = 7) cao **B1**

Answer: C) 7

Question 3

correct option E (20) cao **B1**

Answer: E) 20

Question 4

correct option B (58) cao **B1**

Answer: B) 58

Question 5

correct option A (32) cao **B1**

Answer: A) 32

Question 6

correct option C (56.5) cao **B1**

Answer: C) 56.5

Question 7

correct option D (21) cao **B1**

Answer: D) 21

Question 8

correct option C (38) cao **B1**

Answer: C) 38

Question 9

correct option A (56) cao **B1**

Answer: A) 56

Question 10

correct option D (20) cao **B1**

Answer: D) 20

Question 11

correct option B (6) cao **B1**

Answer: B) 6

Question 12

correct option C (111) cao **B1**

Answer: C) 111

Question 13

correct option B (7) cao **B1**

Answer: B) 7

Question 14

correct option E (30) cao **B1**

Answer: E) 30

Question 15

correct option D (20.5) cao **B1**

Answer: D) 20.5

Question 16

correct option A (6) cao **B1**

Answer: A) 6

Question 17

correct option E (37) cao **B1**

Answer: E) 37

Question 18

correct option A (6) cao **B1**

Answer: A) 6

Question 19

correct option B (89) cao **B1**

Answer: B) 89

Question 20

correct option C (67) cao **B1**

Answer: C) 67

Question 21

correct option D (11) cao **B1**

Answer: D) 11

Question 22

correct option A (21) cao **B1**

Answer: A) 21

Question 23

correct option B (28) cao **B1**

Answer: B) 28

Question 24

correct option E (10) cao **B1**

Answer: E) 10

Question 25

correct option A (33) cao **B1**

Answer: A) 33

Question 26

correct option B (61) cao **B1**

Answer: B) 61

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Question 27

correct option C (14) cao **B1**

Answer: C) 14

Question 28

correct option E (37) cao **B1**

Answer: E) 37

Question 29

correct option A (49) cao **B1**

Answer: A) 49

Question 30

correct option B (18) cao **B1**

Answer: B) 18

Question 31

Sum of numbers seen (3+7+4+8+8 = 30) or equivalent method **M1**

Mean 30/5 = 6 cao **A1**

Answer: 6 (mean = 30/5 = 6).

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