2.103 Mean, Median, Mode and Range in Depth: 2-hour Pack

Total Marks

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 120 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Here are 4 numbers: 29, 37, 33, 1. What is the mean?

- ☐ A) 24
- ☐ B) 31
- ☐ C) 25
- ☐ D) 36
- ☐ E) 100

---

2 What is the median of these 6 numbers? 10, 23, 11, 35, 28, 30

- ☐ A) 24.5
- ☐ B) 25.5
- ☐ C) 28
- ☐ D) 26.5
- ☐ E) 23

---

3 Ravi scores 32, 21, 39, 31, 18, 21, 23 in 7 games. Ravi wants a mean score of 24 over 8 games. What must Ravi score in the last game?

- ☐ A) -17
- ☐ B) 31
- ☐ C) 192
- ☐ D) 7
- ☐ E) 24

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4 The mean score in 4 weekly spelling tests is 39. After one more weekly spelling test the mean score is 36. What was the score in the last weekly spelling test?

- ☐ A) 25
- ☐ B) 23
- ☐ C) 36
- ☐ D) 180
- ☐ E) 24

---

5 Here are some numbers: 21, 28, 28, 118, 82, 47. What is the mode?

- ☐ A) 28
- ☐ B) 2
- ☐ C) 21
- ☐ D) 29
- ☐ E) 118

---

6 The mean score in 8 tests is 27. After one more test the mean score is 26. What was the score in the last test?

- ☐ A) 26
- ☐ B) 19
- ☐ C) 18
- ☐ D) 234
- ☐ E) 35

---

7 What is the median of these 5 numbers? 34, 18, 23, 15, 11

- ☐ A) 23
- ☐ B) 18
- ☐ C) 19
- ☐ D) 20.2
- ☐ E) 17

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8 Noah scores 24, 22, 12, 17 in 4 games. Noah wants a mean score of 17 over 5 games. What must Noah score in the last game?

- [ ] A) 85
- [ ] B) 9
- [ ] C) 17
- [ ] D) 10
- [ ] E) 7

---

9 Here are some numbers: 38, 14, 3, 28, 22, 23, 24, 38. What is the range?

- [ ] A) 23.75
- [ ] B) 3
- [ ] C) 35
- [ ] D) 41
- [ ] E) 38

---

10 The values for the ages of members of a swimming club are 8, 6, 3, 3, 11, 4, 7. What is the mean?

- [ ] A) 7
- [ ] B) 6
- [ ] C) 5.25
- [ ] D) 8
- [ ] E) 42

---

11 What is the median of these 6 numbers? 75, 120, 55, 79, 9, 97

- [ ] A) 77
- [ ] B) 75
- [ ] C) 72.5
- [ ] D) 67
- [ ] E) 76

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12 Anya scores 20, 27, 20 in 3 games. Anya wants a mean score of 40 over 4 games. What must Anya score in the last game?

- [ ] A) 98
- [ ] B) 40
- [ ] C) 160
- [ ] D) 94
- [ ] E) 93

---

13 Here are some numbers: 7, 34, 27, 33, 36, 16, 7, 3. What is the mode?

- [ ] A) 36
- [ ] B) 21.5
- [ ] C) 3
- [ ] D) 20.375
- [ ] E) 7

---

14 The mean score in 8 tests is 12. After one more test the mean score is 13. What was the score in the last test?

- [ ] A) 117
- [ ] B) 21
- [ ] C) 20
- [ ] D) 13
- [ ] E) 4

---

15 The values for minutes spent reading each evening are 3, 1, 2, 2, 7. What is the mean?

- [ ] A) 2.5
- [ ] B) 3
- [ ] C) 3.75
- [ ] D) 2
- [ ] E) 15

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16 What is the median of these 10 numbers? 97, 64, 70, 63, 62, 83, 19, 107, 81, 65

- ☐ A) 70
- ☐ B) 68.5
- ☐ C) 72.5
- ☐ D) 67.5
- ☐ E) 71.1

---

17 Leo scores 33, 33, 17, 12, 29 in 5 games. Leo wants a mean score of 21 over 6 games. What must Leo score in the last game?

- ☐ A) 2
- ☐ B) 126
- ☐ C) 23
- ☐ D) -19
- ☐ E) 21

---

18 Here are some numbers: 11, 2, 15, 1, 12, 20, 12, 33, 9, 24. What is the mode?

- ☐ A) 13
- ☐ B) 1
- ☐ C) 12
- ☐ D) 11
- ☐ E) 33

---

19 The mean score in 5 weekly spelling tests is 18. After one more weekly spelling test the mean score is 22. What was the score in the last weekly spelling test?

- ☐ A) 22
- ☐ B) 20
- ☐ C) 43
- ☐ D) 42
- ☐ E) 132

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20 What is the median of these 5 numbers? 24, 27, 31, 40, 8

- [ ] A) 28
- [ ] B) 26
- [ ] C) 24
- [ ] D) 31
- [ ] E) 27

---

21 Ethan scores 33, 34, 24, 13 in 4 games. Ethan wants a mean score of 23 over 5 games. What must Ethan score in the last game?

- [ ] A) 12
- [ ] B) 11
- [ ] C) 34
- [ ] D) 115
- [ ] E) 23

---

22 What is the median of these 7 numbers? 48, 71, 39, 99, 83, 77, 71

- [ ] A) 70
- [ ] B) 72
- [ ] C) 99
- [ ] D) 71
- [ ] E) 77

---

23 Here are some numbers: 94, 65, 75, 44, 114, 73, 65, 56, 3, 60. What is the mode?

- [ ] A) 65
- [ ] B) 114
- [ ] C) 3
- [ ] D) 64
- [ ] E) 64.9

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24 The mean score in 8 weekly spelling tests is 31. After one more weekly spelling test the mean score is 29. What was the score in the last weekly spelling test?

- [ ] A) 14
- [ ] B) 13
- [ ] C) 47
- [ ] D) 261
- [ ] E) 29

---

25 Here are 4 numbers: 35, 17, 49, 39. What is the mean?

- [ ] A) 32
- [ ] B) 34
- [ ] C) 37
- [ ] D) 35
- [ ] E) 140

---

26 What is the median of these 10 numbers? 21, 4, 40, 14, 24, 21, 30, 20, 5, 31

- [ ] A) 210
- [ ] B) 22
- [ ] C) 20
- [ ] D) 22.5
- [ ] E) 21

---

27 Here are some numbers: 14, 3, 9, 9, 10, 1, 17, 11, 2, 20, 39. What is the range?

- [ ] A) 39
- [ ] B) 37
- [ ] C) 38
- [ ] D) 1
- [ ] E) 40

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28 The mean score in 5 games is 31. After one more game the mean score is 30. What was the score in the last game?

- [ ] A) 25
- [ ] B) 30
- [ ] C) 36
- [ ] D) 180
- [ ] E) 24

---

29 Here are 7 numbers: 11, 15, 7, 18, 12, 13, 15. What is the mean?

- [ ] A) 11.375
- [ ] B) 12
- [ ] C) 13
- [ ] D) 91
- [ ] E) 11

---

30 What is the median of these 7 numbers? 40, 111, 65, 95, 93, 67, 120

- [ ] A) 95
- [ ] B) 92
- [ ] C) 94
- [ ] D) 93
- [ ] E) 67

---

31 Poppy scores 13, 8, 21 in 3 games. Poppy wants a mean score of 13 over 4 games. What must Poppy score in the last game?

- [ ] A) 52
- [ ] B) 23
- [ ] C) 13
- [ ] D) 9
- [ ] E) 10

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32 Arjun scores 33, 21, 52, 46, 24, 26, 42 in 7 games. Arjun wants a mean score of 35 over 8 games. What must Arjun score in the last game?

- [ ] A) 36
- [ ] B) 1
- [ ] C) 35
- [ ] D) 280
- [ ] E) 37

---

33 Here are some numbers: 23, 9, 22, 6, 22, 18, 12, 29, 39, 15. What is the mode?

- [ ] A) 2
- [ ] B) 22
- [ ] C) 39
- [ ] D) 6
- [ ] E) 23

---

34 The values for marks in spelling tests are 37, 22, 18, 15, 26, 28, 41, 61. What is the mean?

- [ ] A) 46
- [ ] B) 31
- [ ] C) 30
- [ ] D) 27
- [ ] E) 248

---

35 What is the median of these 9 numbers? 101, 41, 95, 7, 23, 119, 49, 2, 13

- [ ] A) 41
- [ ] B) 49
- [ ] C) 42
- [ ] D) 50
- [ ] E) 23

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36 Sana scores 19, 29, 45 in 3 games. Sana wants a mean score of 30 over 4 games. What must Sana score in the last game?

- [ ] A) 120
- [ ] B) 30
- [ ] C) 57
- [ ] D) 3
- [ ] E) 27

---

37 The mean score in 7 tests is 11. After one more test the mean score is 13. What was the score in the last test?

- [ ] A) 13
- [ ] B) 104
- [ ] C) 26
- [ ] D) 27
- [ ] E) 14

---

38 The values for daily temperatures in °C are 33, 81, 35, 35. What is the mean?

- [ ] A) 47
- [ ] B) 184
- [ ] C) 46
- [ ] D) 35
- [ ] E) 48

---

39 What is the median of these 9 numbers? 5, 2, 27, 30, 15, 20, 16, 40, 8

- [ ] A) 17
- [ ] B) 15
- [ ] C) 20
- [ ] D) 160
- [ ] E) 16

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40 Here are some numbers: 21, 24, 31, 36, 16, 23, 19, 5, 19, 29. What is the range?

- ☐ A) 22
- ☐ B) 41
- ☐ C) 5
- ☐ D) 36
- ☐ E) 31

---

41 Here are some numbers: 61, 61, 25, 27, 21, 93, 3. What is the range?

- ☐ A) 90
- ☐ B) 96
- ☐ C) 93
- ☐ D) 89
- ☐ E) 3

---

42 The mean score in 7 tests is 12. After one more test the mean score is 13. What was the score in the last test?

- ☐ A) 13
- ☐ B) 20
- ☐ C) 5
- ☐ D) 104
- ☐ E) 19

---

43 The values for points scored in netball matches are 10, 11, 21. What is the mean?

- ☐ A) 15
- ☐ B) 10.5
- ☐ C) 14
- ☐ D) 11
- ☐ E) 42

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44 What is the median of these 10 numbers? 19, 40, 5, 28, 36, 24, 14, 10, 40, 39

- ☐ A) 27
- ☐ B) 25.5
- ☐ C) 30
- ☐ D) 26
- ☐ E) 25

---

45 Priya scores 57, 34, 38, 33, 20, 23, 50 in 7 games. Priya wants a mean score of 37 over 8 games. What must Priya score in the last game?

- ☐ A) 296
- ☐ B) 78
- ☐ C) 40
- ☐ D) 37
- ☐ E) 41

---

46 Here are some numbers: 31, 36, 1, 1, 8, 25. What is the mode?

- ☐ A) 1
- ☐ B) 36
- ☐ C) 17
- ☐ D) 16.5
- ☐ E) 2

---

47 Here are 6 numbers: 30, 28, 19, 43, 31, 17. What is the mean?

- ☐ A) 28
- ☐ B) 29
- ☐ C) 168
- ☐ D) 33.6
- ☐ E) 27

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48 What is the median of these 6 numbers? 54, 90, 63, 110, 42, 8

- A) 63
- B) 59.5
- C) 54
- D) 58.5
- E) 86.5

---

49 Dylan scores 34, 32, 45, 41, 33 in 5 games. Dylan wants a mean score of 39 over 6 games. What must Dylan score in the last game?

- A) 10
- B) 234
- C) 49
- D) 39
- E) 50

---

50 The mean score in 5 games is 12. After one more game the mean score is 13. What was the score in the last game?

- A) 18
- B) 13
- C) 78
- D) 7
- E) 19

---

51 Here are some numbers: 39, 28, 15, 5, 35, 39, 37, 32, 26, 27, 8. What is the mode?

- A) 38
- B) 39
- C) 2
- D) 28
- E) 5

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52 The mean score in 6 games is 7. After one more game the mean score is 11. What was the score in the last game?

- [ ] A) 34
- [ ] B) 36
- [ ] C) 35
- [ ] D) 11
- [ ] E) 77

---

53 The values for minutes spent reading each evening are 6, 19, 5, 6. What is the mean?

- [ ] A) 6
- [ ] B) 12
- [ ] C) 36
- [ ] D) 9
- [ ] E) 14

---

54 Declan scores 4, 5, 5, 12 in 4 games. Declan wants a mean score of 7 over 5 games. What must Declan score in the last game?

- [ ] A) 35
- [ ] B) 10
- [ ] C) 9
- [ ] D) 8
- [ ] E) 7

---

55 Here are some numbers: 17, 7, 29, 12, 11, 28, 2, 7. What is the range?

- [ ] A) 2
- [ ] B) 27
- [ ] C) 29
- [ ] D) 26
- [ ] E) 28

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56 The mean score in 4 tests is 23. After one more test the mean score is 22. What was the score in the last test?

- [ ] A) 110
- [ ] B) 22
- [ ] C) 27
- [ ] D) 17
- [ ] E) 18

---

57 The values for goals scored in a season are 45, 106, 35, 82. What is the mean?

- [ ] A) 53.6
- [ ] B) 67
- [ ] C) 63.5
- [ ] D) 268
- [ ] E) 66

---

58 What is the median of these 6 numbers? 22, 22, 28, 3, 38, 40

- [ ] A) 25
- [ ] B) 15.5
- [ ] C) 22
- [ ] D) 25.5
- [ ] E) 24

---

59 Arjun scores 20, 33, 26, 19, 18, 16 in 6 games. Arjun wants a mean score of 26 over 7 games. What must Arjun score in the last game?

- [ ] A) 182
- [ ] B) 55
- [ ] C) 50
- [ ] D) 26
- [ ] E) 49

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60 The values for minutes spent reading each evening are 44, 104, 56, 104. What is the mean?

- [ ] A) 76
- [ ] B) 60
- [ ] C) 308
- [ ] D) 80
- [ ] E) 77

---

61 The mean score in 5 games is 18. After one more game the mean score is 17. What was the score in the last game?

- [ ] A) 102
- [ ] B) 17
- [ ] C) 13
- [ ] D) 12
- [ ] E) 11

---

62 Here are 5 numbers: 11, 18, 12, 25, 24. What is the mean?

- [ ] A) 17
- [ ] B) 90
- [ ] C) 14
- [ ] D) 18
- [ ] E) 15

---

63 What is the median of these 7 numbers? 40, 11, 16, 7, 3, 17, 24

- [ ] A) 15
- [ ] B) 11
- [ ] C) 16
- [ ] D) 7
- [ ] E) 17

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64 Here are some numbers: 21, 5, 5, 20, 22, 32, 3, 7, 19. What is the mode?

- ☐ A) 3
- ☐ B) 2
- ☐ C) 32
- ☐ D) 19
- ☐ E) 5

---

65 The mean score in 4 weekly spelling tests is 20. After one more weekly spelling test the mean score is 18. What was the score in the last weekly spelling test?

- ☐ A) 90
- ☐ B) 10
- ☐ C) 28
- ☐ D) 18
- ☐ E) 11

---

66 The values for daily temperatures in °C are 13, 8, 15, 5, 11, 17, 8. What is the mean?

- ☐ A) 11
- ☐ B) 9.625
- ☐ C) 77
- ☐ D) 12
- ☐ E) 10

---

67 Isla scores 9, 27, 9 in 3 games. Isla wants a mean score of 16 over 4 games. What must Isla score in the last game?

- ☐ A) 64
- ☐ B) 19
- ☐ C) 3
- ☐ D) 24
- ☐ E) 16

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68 What is the median of these 7 numbers? 12, 10, 2, 22, 19, 35, 33

- ☐ A) 22
- ☐ B) 18
- ☐ C) 20
- ☐ D) 19
- ☐ E) 12

---

69 Here are some numbers: 37, 27, 23, 8, 2, 33, 33, 16. What is the range?

- ☐ A) 2
- ☐ B) 22.375
- ☐ C) 35
- ☐ D) 36
- ☐ E) 37

---

70 The mean score in 5 weekly spelling tests is 24. After one more weekly spelling test the mean score is 28. What was the score in the last weekly spelling test?

- ☐ A) 49
- ☐ B) 47
- ☐ C) 168
- ☐ D) 28
- ☐ E) 48

---

71 Here are 6 numbers: 9, 4, 9, 5, 4, 5. What is the mean?

- ☐ A) 36
- ☐ B) 7.2
- ☐ C) 6
- ☐ D) 7
- ☐ E) 5

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72 What is the median of these 9 numbers? 61, 14, 35, 40, 3, 6, 116, 21, 86

- ☐ A) 35
- ☐ B) 36
- ☐ C) 34
- ☐ D) 3
- ☐ E) 40

---

73 Aisha scores 38, 27, 18, 38, 23 in 5 games. Aisha wants a mean score of 31 over 6 games. What must Aisha score in the last game?

- ☐ A) 42
- ☐ B) 186
- ☐ C) 73
- ☐ D) 31
- ☐ E) 47

---

74 The mean score in 7 games is 31. After one more game the mean score is 28. What was the score in the last game?

- ☐ A) 28
- ☐ B) 6
- ☐ C) 8
- ☐ D) 224
- ☐ E) 7

---

75 The values for books borrowed each week are 23, 29, 8. What is the mean?

- ☐ A) 30
- ☐ B) 20
- ☐ C) 60
- ☐ D) 21
- ☐ E) 23

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76 What is the median of these 10 numbers? 32, 33, 29, 24, 1, 22, 20, 21, 9, 18

- ☐ A) 22
- ☐ B) 20.9
- ☐ C) 22.5
- ☐ D) 21.5
- ☐ E) 11.5

---

77 Ravi scores 19, 14, 26 in 3 games. Ravi wants a mean score of 23 over 4 games. What must Ravi score in the last game?

- ☐ A) 33
- ☐ B) 10
- ☐ C) 56
- ☐ D) 23
- ☐ E) 92

---

78 Here are some numbers: 37, 36, 38, 36, 5. What is the mode?

- ☐ A) 2
- ☐ B) 5
- ☐ C) 38
- ☐ D) 30.4
- ☐ E) 36

---

79 The mean score in 8 games is 23. After one more game the mean score is 22. What was the score in the last game?

- ☐ A) 14
- ☐ B) 31
- ☐ C) 22
- ☐ D) 198
- ☐ E) 13

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80 Here are 8 numbers: 6, 18, 8, 10, 9, 10, 10, 25. What is the mean?

- ☐ A) 13
- ☐ B) 10
- ☐ C) 11
- ☐ D) 12
- ☐ E) 96

---

81 Oliver scores 33, 15, 20, 31, 23 in 5 games. Oliver wants a mean score of 27 over 6 games. What must Oliver score in the last game?

- ☐ A) 45
- ☐ B) 40
- ☐ C) 27
- ☐ D) 41
- ☐ E) 162

---

82 Here are some numbers: 19, 38, 28, 28, 31, 16, 2, 20. What is the mode?

- ☐ A) 29
- ☐ B) 38
- ☐ C) 22.75
- ☐ D) 28
- ☐ E) 2

---

83 The mean score in 6 weekly spelling tests is 34. After one more weekly spelling test the mean score is 35. What was the score in the last weekly spelling test?

- ☐ A) 42
- ☐ B) 41
- ☐ C) 28
- ☐ D) 35
- ☐ E) 245

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84 The values for marks in spelling tests are 22, 15, 54, 39, 22, 32, 33. What is the mean?

- [ ] A) 31
- [ ] B) 39
- [ ] C) 30
- [ ] D) 32
- [ ] E) 217

---

85 What is the median of these 10 numbers? 4, 72, 78, 22, 46, 87, 63, 101, 24, 49

- [ ] A) 66.5
- [ ] B) 57
- [ ] C) 56
- [ ] D) 49
- [ ] E) 54.6

---

86 Tariq scores 23, 25, 40, 45, 29 in 5 games. Tariq wants a mean score of 31 over 6 games. What must Tariq score in the last game?

- [ ] A) 31
- [ ] B) 186
- [ ] C) 25
- [ ] D) -7
- [ ] E) 24

---

87 The mean score in 5 tests is 28. After one more test the mean score is 32. What was the score in the last test?

- [ ] A) 52
- [ ] B) 192
- [ ] C) 8
- [ ] D) 32
- [ ] E) 20

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88 The values for the ages of members of a swimming club are 23, 26, 13, 43, 22, 15, 11, 23. What is the mean?

- ☐ A) 176
- ☐ B) 21
- ☐ C) 22
- ☐ D) 22.5
- ☐ E) 32

---

89 What is the median of these 6 numbers? 13, 38, 38, 20, 17, 1

- ☐ A) 29
- ☐ B) 19.5
- ☐ C) 17
- ☐ D) 18.5
- ☐ E) 20

---

90 Here are some numbers: 97, 23, 64, 84, 73, 34, 44, 109, 84, 81. What is the mode?

- ☐ A) 23
- ☐ B) 85
- ☐ C) 109
- ☐ D) 84
- ☐ E) 69.3

---

91 The mean score in 6 tests is 14. After one more test the mean score is 15. What was the score in the last test?

- ☐ A) 6
- ☐ B) 21
- ☐ C) 105
- ☐ D) 8
- ☐ E) 15

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92 What is the median of these 7 numbers? 35, 12, 6, 36, 26, 27, 6

- [ ] A) 27
- [ ] B) 25
- [ ] C) 12
- [ ] D) 36
- [ ] E) 26

---

93 Harry scores 23, 16, 27, 19 in 4 games. Harry wants a mean score of 25 over 5 games. What must Harry score in the last game?

- [ ] A) 40
- [ ] B) 125
- [ ] C) 65
- [ ] D) 39
- [ ] E) 25

---

94 Here are some numbers: 3, 31, 17, 15, 29, 29, 37. What is the range?

- [ ] A) 34
- [ ] B) 37
- [ ] C) 3
- [ ] D) 33
- [ ] E) 29

---

95 The mean score in 5 games is 25. After one more game the mean score is 29. What was the score in the last game?

- [ ] A) 5
- [ ] B) 174
- [ ] C) 29
- [ ] D) 49
- [ ] E) 20

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96 The values for points scored in netball matches are 21, 35, 37, 15, 29, 37. What is the mean?

- [ ] A) 32
- [ ] B) 29
- [ ] C) 28
- [ ] D) 174
- [ ] E) 34.8

---

97 What is the median of these 10 numbers? 106, 65, 42, 55, 109, 37, 99, 40, 55, 68

- [ ] A) 67.6
- [ ] B) 61
- [ ] C) 60
- [ ] D) 73
- [ ] E) 55

---

98 Anya scores 44, 25, 34, 30, 26 in 5 games. Anya wants a mean score of 30 over 6 games. What must Anya score in the last game?

- [ ] A) 30
- [ ] B) 20
- [ ] C) 180
- [ ] D) 51
- [ ] E) 21

---

99 Here are some numbers: 20, 4, 19, 6, 20, 8, 29, 32, 34. What is the range?

- [ ] A) 20
- [ ] B) 34
- [ ] C) 4
- [ ] D) 30
- [ ] E) 38

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100 The mean score in 8 games is 33. After one more game the mean score is 37. What was the score in the last game?

- [ ] A) 32
- [ ] B) 37
- [ ] C) 69
- [ ] D) 333
- [ ] E) 68

---

101 Here are 7 numbers: 28, 44, 23, 35, 20, 27, 47. What is the mean?

- [ ] A) 33
- [ ] B) 31
- [ ] C) 224
- [ ] D) 28
- [ ] E) 32

---

102 What is the median of these 8 numbers? 24, 95, 44, 9, 23, 69, 86, 84

- [ ] A) 54.25
- [ ] B) 56.5
- [ ] C) 69
- [ ] D) 16
- [ ] E) 55.5

---

103 Kofi scores 29, 37, 22, 26, 39, 18, 33 in 7 games. Kofi wants a mean score of 29 over 8 games. What must Kofi score in the last game?

- [ ] A) 28
- [ ] B) 29
- [ ] C) 232
- [ ] D) -1
- [ ] E) 1

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104 Here are some numbers: 19, 22, 13, 39, 37, 18, 22, 3, 24, 7, 12. What is the mode?

- ☐ A) 3
- ☐ B) 39
- ☐ C) 2
- ☐ D) 22
- ☐ E) 21

---

105 The mean score in 7 games is 18. After one more game the mean score is 20. What was the score in the last game?

- ☐ A) 160
- ☐ B) 4
- ☐ C) 33
- ☐ D) 20
- ☐ E) 34

---

106 What is the median of these 5 numbers? 38, 34, 36, 4, 20

- ☐ A) 34
- ☐ B) 35
- ☐ C) 36
- ☐ D) 26.4
- ☐ E) 20

---

107 Esme scores 38, 23, 50, 18, 35, 21 in 6 games. Esme wants a mean score of 36 over 7 games. What must Esme score in the last game?

- ☐ A) 31
- ☐ B) 67
- ☐ C) 72
- ☐ D) 36
- ☐ E) 252

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108 Here are some numbers: 52, 110, 117, 73, 116, 3, 55, 117. What is the range?

- ☐ A) 115
- ☐ B) 113
- ☐ C) 3
- ☐ D) 117
- ☐ E) 114

---

109 The mean score in 6 weekly spelling tests is 5. After one more weekly spelling test the mean score is 9. What was the score in the last weekly spelling test?

- ☐ A) 24
- ☐ B) 34
- ☐ C) 33
- ☐ D) 9
- ☐ E) 63

---

110 Here are 3 numbers: 43, 38, 9. What is the mean?

- ☐ A) 31
- ☐ B) 30
- ☐ C) 90
- ☐ D) 29
- ☐ E) 38

---

111 What is the median of these 10 numbers? 13, 37, 7, 13, 23, 8, 20, 4, 15, 5

- ☐ A) 13
- ☐ B) 15.5
- ☐ C) 14
- ☐ D) 12
- ☐ E) 14.5

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112 Maya scores 12, 5, 4, 12, 8 in 5 games. Maya wants a mean score of 8 over 6 games. What must Maya score in the last game?

- [ ] A) 6
- [ ] B) 48
- [ ] C) -1
- [ ] D) 7
- [ ] E) 8

---

113 The mean score in 4 tests is 15. After one more test the mean score is 19. What was the score in the last test?

- [ ] A) 36
- [ ] B) 95
- [ ] C) 19
- [ ] D) 16
- [ ] E) 35

---

114 The values for minutes spent reading each evening are 13, 14, 8, 12, 16, 12, 2. What is the mean?

- [ ] A) 11
- [ ] B) 10
- [ ] C) 77
- [ ] D) 9.625
- [ ] E) 12

---

115 What is the median of these 6 numbers? 106, 59, 91, 98, 12, 6

- [ ] A) 94.5
- [ ] B) 76
- [ ] C) 75
- [ ] D) 59
- [ ] E) 62

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116 Here are some numbers: 3, 20, 23, 10, 27, 21, 23, 34, 31. What is the mode?

- [ ] A) 3
- [ ] B) 34
- [ ] C) 2
- [ ] D) 24
- [ ] E) 23

---

117 The mean score in 8 games is 34. After one more game the mean score is 32. What was the score in the last game?

- [ ] A) 16
- [ ] B) 32
- [ ] C) 50
- [ ] D) 17
- [ ] E) 288

---

118 What is the median of these 8 numbers? 71, 2, 115, 119, 82, 40, 28, 56

- [ ] A) 64.5
- [ ] B) 63.5
- [ ] C) 100.5
- [ ] D) 64.125
- [ ] E) 71

---

119 Harry scores 22, 15, 17, 11, 13, 10 in 6 games. Harry wants a mean score of 13 over 7 games. What must Harry score in the last game?

- [ ] A) 16
- [ ] B) 10
- [ ] C) 3
- [ ] D) 91
- [ ] E) 13

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120 Here are some numbers: 8, 16, 27, 26, 15, 36, 31, 34, 8. What is the range?

- ☐ A) 36
- ☐ B) 44
- ☐ C) 8
- ☐ D) 28
- ☐ E) 27

---

121 The mean score in 6 games is 35. After one more game the mean score is 37. What was the score in the last game?

- ☐ A) 259
- ☐ B) 49
- ☐ C) 23
- ☐ D) 37
- ☐ E) 50

---

122 The values for daily temperatures in °C are 37, 22, 51, 54, 24, 28. What is the mean?

- ☐ A) 35
- ☐ B) 32.5
- ☐ C) 216
- ☐ D) 43.2
- ☐ E) 36

---

123 What is the median of these 7 numbers? 9, 16, 6, 18, 12, 35, 30

- ☐ A) 16
- ☐ B) 17
- ☐ C) 12
- ☐ D) 15
- ☐ E) 18

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124 Megan scores 46, 47, 33, 22 in 4 games. Megan wants a mean score of 36 over 5 games. What must Megan score in the last game?

- [ ] A) 36
- [ ] B) 180
- [ ] C) 32
- [ ] D) -4
- [ ] E) 33

---

125 Here are some numbers: 44, 28, 23, 31, 69, 62, 4, 3, 17, 41, 23. What is the range?

- [ ] A) 65
- [ ] B) 69
- [ ] C) 67
- [ ] D) 66
- [ ] E) 3

---

126 The mean score in 4 weekly spelling tests is 33. After one more weekly spelling test the mean score is 30. What was the score in the last weekly spelling test?

- [ ] A) 150
- [ ] B) 18
- [ ] C) 17
- [ ] D) 19
- [ ] E) 30

---

127 The values for the ages of members of a swimming club are 19, 12, 38. What is the mean?

- [ ] A) 24
- [ ] B) 69
- [ ] C) 23
- [ ] D) 19
- [ ] E) 26

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Mark scheme · 2.103 Mean, Median, Mode and Range in Depth: 2-hour Pack

Question 1

correct option C (25) cao **B1**

Answer: C) 25

Question 2

correct option B (25.5) cao **B1**

Answer: B) 25.5

Question 3

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

Answer: D) 7

Question 4

correct option E (24) cao **B1**

Answer: E) 24

Question 5

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

Answer: A) 28

Question 6

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

Answer: C) 18

Question 7

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

Answer: B) 18

Question 8

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

Answer: D) 10

Question 9

correct option C (35) cao **B1**

Answer: C) 35

Question 10

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

Answer: B) 6

Question 11

correct option A (77) cao **B1**

Answer: A) 77

Question 12

correct option E (93) cao **B1**

Answer: E) 93

Question 13

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

Answer: E) 7

Question 14

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

Answer: B) 21

Question 15

correct option B (3) cao **B1**

Answer: B) 3

Question 16

correct option D (67.5) cao **B1**

Answer: D) 67.5

Question 17

correct option A (2) cao **B1**

Answer: A) 2

Question 18

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

Answer: C) 12

Question 19

correct option D (42) cao **B1**

Answer: D) 42

Question 20

correct option E (27) cao **B1**

Answer: E) 27

Question 21

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

Answer: B) 11

Question 22

correct option D (71) cao **B1**

Answer: D) 71

Question 23

correct option A (65) cao **B1**

Answer: A) 65

Question 24

correct option B (13) cao **B1**

Answer: B) 13

Question 25

correct option D (35) cao **B1**

Answer: D) 35

Question 26

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

Answer: E) 21

Question 27

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

Answer: C) 38

Question 28

correct option A (25) cao **B1**

Answer: A) 25

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Question 29

correct option C (13) cao **B1**

Answer: C) 13

Question 30

correct option D (93) cao **B1**

Answer: D) 93

Question 31

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

Answer: E) 10

Question 32

correct option A (36) cao **B1**

Answer: A) 36

Question 33

correct option B (22) cao **B1**

Answer: B) 22

Question 34

correct option B (31) cao **B1**

Answer: B) 31

Question 35

correct option A (41) cao **B1**

Answer: A) 41

Question 36

correct option E (27) cao **B1**

Answer: E) 27

Question 37

correct option D (27) cao **B1**

Answer: D) 27

Question 38

correct option C (46) cao **B1**

Answer: C) 46

Question 39

correct option E (16) cao **B1**

Answer: E) 16

Question 40

correct option E (31) cao **B1**

Answer: E) 31

Question 41

correct option A (90) cao **B1**

Answer: A) 90

Question 42

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

Answer: B) 20

Question 43

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

Answer: C) 14

Question 44

correct option D (26) cao **B1**

Answer: D) 26

Question 45

correct option E (41) cao **B1**

Answer: E) 41

Question 46

correct option A (1) cao **B1**

Answer: A) 1

Question 47

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

Answer: A) 28

Question 48

correct option D (58.5) cao **B1**

Answer: D) 58.5

Question 49

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

Answer: C) 49

Question 50

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

Answer: A) 18

Question 51

correct option B (39) cao **B1**

Answer: B) 39

Question 52

correct option C (35) cao **B1**

Answer: C) 35

Question 53

correct option D (9) cao **B1**

Answer: D) 9

Question 54

correct option C (9) cao **B1**

Answer: C) 9

Question 55

correct option B (27) cao **B1**

Answer: B) 27

Question 56

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

Answer: E) 18

Question 57

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

Answer: B) 67

Question 58

correct option A (25) cao **B1**

Answer: A) 25

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Question 59

correct option C (50) cao **B1**

Answer: C) 50

Question 60

correct option E (77) cao **B1**

Answer: E) 77

Question 61

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

Answer: D) 12

Question 62

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

Answer: D) 18

Question 63

correct option C (16) cao **B1**

Answer: C) 16

Question 64

correct option E (5) cao **B1**

Answer: E) 5

Question 65

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

Answer: B) 10

Question 66

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

Answer: A) 11

Question 67

correct option B (19) cao **B1**

Answer: B) 19

Question 68

correct option D (19) cao **B1**

Answer: D) 19

Question 69

correct option C (35) cao **B1**

Answer: C) 35

Question 70

correct option E (48) cao **B1**

Answer: E) 48

Question 71

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

Answer: C) 6

Question 72

correct option A (35) cao **B1**

Answer: A) 35

Question 73

correct option A (42) cao **B1**

Answer: A) 42

Question 74

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

Answer: E) 7

Question 75

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

Answer: B) 20

Question 76

correct option D (21.5) cao **B1**

Answer: D) 21.5

Question 77

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

Answer: A) 33

Question 78

correct option E (36) cao **B1**

Answer: E) 36

Question 79

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

Answer: A) 14

Question 80

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

Answer: D) 12

Question 81

correct option B (40) cao **B1**

Answer: B) 40

Question 82

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

Answer: D) 28

Question 83

correct option B (41) cao **B1**

Answer: B) 41

Question 84

correct option A (31) cao **B1**

Answer: A) 31

Question 85

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

Answer: C) 56

Question 86

correct option E (24) cao **B1**

Answer: E) 24

Question 87

correct option A (52) cao **B1**

Answer: A) 52

Question 88

correct option C (22) cao **B1**

Answer: C) 22

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Question 89

correct option D (18.5) cao **B1**

Answer: D) 18.5

Question 90

correct option D (84) cao **B1**

Answer: D) 84

Question 91

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

Answer: B) 21

Question 92

correct option E (26) cao **B1**

Answer: E) 26

Question 93

correct option A (40) cao **B1**

Answer: A) 40

Question 94

correct option A (34) cao **B1**

Answer: A) 34

Question 95

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

Answer: D) 49

Question 96

correct option B (29) cao **B1**

Answer: B) 29

Question 97

correct option C (60) cao **B1**

Answer: C) 60

Question 98

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

Answer: E) 21

Question 99

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

Answer: D) 30

Question 100

correct option C (69) cao **B1**

Answer: C) 69

Question 101

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

Answer: E) 32

Question 102

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

Answer: B) 56.5

Question 103

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

Answer: A) 28

Question 104

correct option D (22) cao **B1**

Answer: D) 22

Question 105

correct option E (34) cao **B1**

Answer: E) 34

Question 106

correct option A (34) cao **B1**

Answer: A) 34

Question 107

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

Answer: B) 67

Question 108

correct option E (114) cao **B1**

Answer: E) 114

Question 109

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

Answer: C) 33

Question 110

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

Answer: B) 30

Question 111

correct option A (13) cao **B1**

Answer: A) 13

Question 112

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

Answer: D) 7

Question 113

correct option E (35) cao **B1**

Answer: E) 35

Question 114

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

Answer: A) 11

Question 115

correct option C (75) cao **B1**

Answer: C) 75

Question 116

correct option E (23) cao **B1**

Answer: E) 23

Question 117

correct option A (16) cao **B1**

Answer: A) 16

Question 118

correct option B (63.5) cao **B1**

Answer: B) 63.5

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Question 119

correct option C (3) cao **B1**

Answer: C) 3

Question 120

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

Answer: D) 28

Question 121

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

Answer: B) 49

Question 122

correct option E (36) cao **B1**

Answer: E) 36

Question 123

correct option A (16) cao **B1**

Answer: A) 16

Question 124

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

Answer: C) 32

Question 125

correct option D (66) cao **B1**

Answer: D) 66

Question 126

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

Answer: B) 18

Question 127

correct option C (23) cao **B1**

Answer: C) 23

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