Connecting the Dots

Standard difficulty · 20 questions · 40 marks · Time: 28 minutes

Name: _____ Date: _____ Score: ____ / 40

Show your working for Sections B and C. Answers are on the last page — try every question first!

Section A — Choose the correct answer — 8 × 1 = 8 marks

1. The mean of 28, 28, 39, 19, 51 is:
(a) 35 **(b)** 165 **(c)** 33 **(d)** 28

2. The median of 51, 64, 59, 16, 56, 79, 75 is:
(a) 79 **(b)** 16 **(c)** 59 **(d)** 57.14

3. The mean of a set of numbers is:
(a) their total divided by how many there are
(b) the largest minus the smallest
(c) the middle number
(d) the most common number

4. The range of 117, 132, 141, 142, 16, 67 is:
(a) 25 **(b)** 615 **(c)** 126 **(d)** 142

5. The median of 49, 43, 31, 34, 13, 56 is:
(a) 43 **(b)** 37.67 **(c)** 38.5 **(d)** 34

6. Which value is an outlier in 97, 55, 51, 49, 53, 53?
(a) 98 **(b)** 97 **(c)** 53 **(d)** 49

7. Runs in 4 matches: 20, 30, 40, 50. The mean is:
(a) 40 **(b)** 140 **(c)** 30 **(d)** 35

8. The mean of 8 numbers is 51. One more number, 78, is added. The new mean is:
(a) 54 **(b)** 61 **(c)** 55 **(d)** 51

Section B — Short answer — 8 × 2 = 16 marks

9. Find the mean of 60, 78, 32, 76, 85, 53.

10. Find the median and the range of 67, 33, 64, 71, 18, 44, 73.

11. A dot plot of pets per family shows: 3 pets: 2 dots, 4 pets: 6 dots, 5 pets: 4 dots. How many families are there? Which number of pets is most common?

12. The mean of 5 numbers is 58. 4 of them are 72, 43, 45, 43. Find the missing number.

13. Find the mean of 56, 62, 64, 62, 120, then the mean without the outlier 120.

14. Goals scored by a team: 1 goal in 1 match, 3 goals in 4 matches, 9 goals in 3 matches. Find the mean number of goals per match.

15. Group A scored 32, 71, 64, 89 and group B scored 80, 86, 63, 87. Which group has the higher mean, and by how much?

16. Find the median of 27, 30, 94, 33, 59, 44, 64, 78.

Section C — Word problems — 4 × 4 = 16 marks

17. Zoya scored 29, 0, 11, 58, 82, 42 runs in six cricket matches. Find the mean, the median and the range of the scores.

18. The heights in cm of 9 bean plants after a month are 38, 46, 23, 13, 34, 22, 34, 47, 48. Find the median height and the range.

19. Ananya's marks in 4 tests are 62, 72, 90, 68. What must Ananya score in the next test for the mean of all 5 tests to be 78?

20. Noon temperatures (°C) for a week: Mon 11, Tue 31, Wed 27, Thu 25, Fri 28, Sat 26, Sun 25. One day was unusual. Which day, and what is the mean with and without it?

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Answer key

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Q	Answer	Working
1	**(c) 33**	165 ÷ 5 = 33
2	**(c) 59**	in order: 16, 51, 56, 59, 64, 75, 79
3	**(a) their total divided by how many there are**	—
4	**(c) 126**	142 − 16
5	**(c) 38.5**	in order: 13, 31, 34, 43, 49, 56; halfway between 34 and 43
6	**(b) 97**	it is far from all the others
7	**(d) 35**	140 ÷ 4
8	**(a) 54**	(408 + 78) ÷ 9 = 54
9	**64**	384 ÷ 6
10	**median 64, range 55**	in order: 18, 33, 44, 64, 67, 71, 73
11	**12 families; 4**	2 + 6 + 4 = 12
12	**87**	58 × 5 = 290; 290 − 203 = 87
13	**72.8; 61 without it**	364 ÷ 5; 244 ÷ 4
14	**5**	1 × 1 + 3 × 4 + 9 × 3 = 40; ÷ 8
15	**group B, by 15**	A: 256 ÷ 4 = 64; B: 316 ÷ 4 = 79
16	**51.5**	in order: 27, 30, 33, 44, 59, 64, 78, 94
17	**mean 37, median 35.5, range 82**	222 ÷ 6; middle two of the sorted scores
18	**median 34 cm, range 35 cm**	in order: 13, 22, 23, 34, 34, 38, 46, 47, 48
19	**98 marks**	78 × 5 = 390; 390 − 292 = 98
20	**Mon; about 24.7 with it, 27 without**	173 ÷ 7 (to 1 decimal place); 162 ÷ 6