Tales by Dots and Lines

Standard difficulty · 20 questions · 40 marks · Time: 29 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. Value 4 appears 1 times, 11 appears 2 times and 17 appears 2 times. The mean is:
(a) 13 **(b)** 10.67 **(c)** 12 **(d)** 5

2. Data is grouped in classes of width 5 (0–5, 5–10, …). Which class does 88 go in?
(a) 85–90 **(b)** 80–85 **(c)** 90–95 **(d)** 88–93

3. In a frequency table, the frequency of a value is:
(a) how many times it appears **(b)** the largest value
(c) the mean **(d)** the value itself

4. A line graph shows the temperature (°C): 6 am 15, 8 am 18, 10 am 22, 12 noon 28, 2 pm 36. The biggest rise was between:
(a) 10 am and 12 noon **(b)** 6 am and 8 am
(c) 8 am and 10 am **(d)** 12 noon and 2 pm

5. A frequency table shows: 2 (5 times), 3 (3 times), 4 (once), 5 (6 times). The median is:
(a) 3 **(b)** 5 **(c)** 4 **(d)** 3.53

6. The range of 64, 21, 61, 84, 80, 73, 24, 64 is:
(a) 63 **(b)** 471 **(c)** 84 **(d)** 20

7. Marks 2, 3, 3, 4, 4, 4, 5: the mode is:
(a) 4 **(b)** 3 **(c)** 5 **(d)** 25

8. Marks of 15 students: 32, 33, 51, 1, 36, 14, 49, 8, 52, 3, 45, 33, 56, 42, 6. How many are in the class 50–60?
(a) 2 **(b)** 3 **(c)** 4 **(d)** 5

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

9. Make a grouped frequency table (0–10, 10–20, …, 40–50) for these 20 scores: 30, 14, 7, 40, 44, 29, 43, 30, 45, 34, 16, 35, 25, 42, 19, 35, 41, 32, 44, 30.

10. Find the mean: 8 occurs 7 times; 14 occurs 7 times; 15 occurs 3 times; 27 occurs 9 times.

11. A line graph of a shop's sales (in units) shows Jan 70, Feb 116, Mar 23, Apr 47, May 119, Jun 38. In which month was the biggest drop from the month before, and how big was it?

12. Find the median and the mode: 1 (5), 2 (4), 12 (3), 16 (6), 18 (3), where the brackets give the frequency.

13. Of 50 children, 21 walk, 4 take the bus and 25 cycle to school. What percentage use each way?

14. Section A has 25 students with a mean mark of 60; section B has 40 students with a mean of 73. Find the mean for both sections together.

15. Marks in classes 0–20, 20–40, 40–60, 60–80, 80–100 have frequencies 8, 8, 2, 9, 9. How many students scored 60 or more?

16. Find the mean and median of 16, 23, 24, 10, 15, 39, 51, 31, 36. Which is larger?

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

17. A line graph shows monthly rainfall in mm: June 319, July 383, August 133, September 53. Which month was wettest? What was the total rainfall, and the change from June to September?

18. A class test has these frequencies: 0–20: 7, 20–40: 4, 40–60: 7, 60–80: 10, 80–100: 12. How many students took the test, and how many scored 40 or more?

19. A tea stall sold Mon 54, Tue 36, Wed 32, Thu 53, Fri 32, Sat 75 cups. Find the mean daily sale and list the days above the mean.

20. In five matches Meera scored 26, 33, 79, 13, 79 runs and Rohan scored 81, 60, 42, 28, 39. Compare their means and their ranges. Who was more consistent?

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Answer key

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Q	Answer	Working
1	**(c) 12**	4 × 1 + 11 × 2 + 17 × 2 = 60; ÷ 5
2	**(a) 85–90**	85 ≤ 88 < 90
3	**(a) how many times it appears**	—
4	**(d) 12 noon and 2 pm**	a rise of 8°
5	**(a) 3**	15 values; the middle one is number 8
6	**(a) 63**	84 − 21
7	**(a) 4**	—
8	**(b) 3**	count the marks from 50 up to (not including) 60
9	**0–10: 1, 10–20: 3, 20–30: 2, 30–40: 7, 40–50: 7**	the frequencies add up to 20
10	**17**	442 ÷ 26
11	**Mar, 93 units**	compare each month with the one before
12	**median 12; mode 16**	21 values in all
13	**42%, 8%, 50%**	each child is 2%
14	**68**	(1500 + 2920) ÷ 65
15	**18**	9 + 9
16	**mean about 27.22, median 24; the mean**	245 ÷ 9; middle of the sorted list
17	**July; 888 mm; a fall of 266 mm**	319 + 383 + 133 + 53 = 888
18	**40 students; 29 scored 40 or more**	7 + 4 + 7 + 10 + 12 = 40
19	**47; Mon, Thu, Sat**	282 ÷ 6 = 47
20	**Meera: mean 46, range 66; Rohan: mean 50, range 53; Rohan (smaller range)**	a smaller range means the scores are closer together

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