Data Handling

Standard difficulty · 20 questions · 40 marks · Time: 54 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. Children named their favourite subject (M = Maths, L = Languages, A = Art, S = Science, P = Sports): A P P M L P P P S P P S P S L M. Which subject was chosen most?
   (a) Languages **(b)** Maths **(c)** Art **(d)** Sports

2. Favourite subjects (M = Maths, L = Languages, A = Art, S = Science, P = Sports): S M S A L S A A A S P M A M P P. Which subject was chosen least?
   (a) Languages **(b)** Science **(c)** Maths **(d)** Art

3. In this list, how many children chose Sports (P)? S A M L S L S M M M S P P M
   (a) 3 **(b)** 4 **(c)** 1 **(d)** 2

4. A class table shows girls: chess only 14, cricket only 10, both 6, neither 12; boys: chess only 14, cricket only 12, both 7, neither 4. How many children play chess only?
   (a) 28 **(b)** 14 **(c)** 27 **(d)** 29

5. A survey is a way of:
   (a) telling the time **(b)** collecting answers from people
   (c) measuring length **(d)** drawing shapes

6. A stall sold fruit chaat: Monday 25, Tuesday 28, Wednesday 14. How many plates in all?
   (a) 69 **(b)** 67 **(c)** 65 **(d)** 68

7. Sandwiches sold: Monday 18, Tuesday 60, Wednesday 60, Thursday 47. On which day were the most sold?
   (a) Tuesday **(b)** Monday **(c)** Thursday **(d)** Wednesday

8. Girls who play: chess only 8, cricket only 14, both 4, neither 10. How many girls are there in all?
   (a) 35 **(b)** 38 **(c)** 37 **(d)** 36

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

9. Count each subject (M = Maths, L = Languages, A = Art, S = Science, P = Sports) and make a table: L L P P L S P A S P L M P S M

10. Girls who play: chess only 5, cricket only 12, both 4, neither 2. How many girls are there in all?

11. Girls who play: chess only 12, cricket only 10, both 15, neither 2. How many girls play chess (chess only or both)?

12. From this list (M = Maths, L = Languages, A = Art, S = Science, P = Sports), how many more chose Science than Sports? L S M L P L P L L L S A S P S M S A L A L A

13. Fruit chaat sold: Monday 34, Tuesday 36, Wednesday 23. Sandwiches sold: Monday 19, Tuesday 24, Wednesday 15. Which sold more over the three days, and by how many?

14. How many children answered this survey? P S S M P P A M L L M M S A S P L M A L

15. Children present: Monday 31, Tuesday 37, Wednesday 38, Thursday 37, Friday 26. On which day were the fewest present? How many?

16. Girls: chess only 3, cricket only 11, both 13, neither 6. Boys: chess only 10, cricket only 14, both 11, neither 13. How many children play neither game?

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

17. A class voted for their favourite subject (M = Maths, L = Languages, A = Art, S = Science, P = Sports): M A A A M A S A P M P A L P M M L P M M M. (a) Make a table of the counts. (b) Which subject was most liked? (c) Which was least liked? (d) How many children voted?

18. Girls: chess only 4, cricket only 10, both 7, neither 11. Boys: chess only 12, cricket only 12, both 6, neither 2. (a) How many girls and how many boys are there? (b) How many children play cricket (cricket only or both)? (c) How many children are in the class?

19. A school stall sold fruit chaat (Monday 23, Tuesday 28, Wednesday 14) and sandwiches (Monday 21, Tuesday 23, Wednesday 22). (a) How many items were sold each day? (b) On which day were the most items sold?

20. In a class of 32, 10 children come by bus to school and 6 come by car. The rest come by cycle. How many is that? Which way is the most common?

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Answer key

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Q	Answer	Working
1	**(d) Sports**	M 2, L 2, A 1, S 3, P 8
2	**(a) Languages**	M 3, L 1, A 5, S 4, P 3
3	**(d) 2**	—
4	**(a) 28**	14 + 14
5	**(b) collecting answers from people**	—
6	**(b) 67**	25 + 28 + 14
7	**(a) Tuesday**	—
8	**(d) 36**	8 + 14 + 4 + 10
9	**Maths 2, Languages 4, Art 1, Science 3, Sports 5**	15 children in all
10	**23**	5 + 12 + 4 + 2
11	**27**	12 + 15
12	**2**	Science 5, Sports 3
13	**Fruit chaat, by 35**	93 and 58
14	**20**	count every letter
15	**Friday; 26**	—
16	**19**	6 + 13
17	**(a) Maths 8, Languages 2, Art 6, Science 1, Sports 4; (b) Maths; (c) Science; (d) 21**	—
18	**(a) girls 32, boys 32; (b) 35; (c) 64**	—
19	**(a) Monday 44, Tuesday 51, Wednesday 36; (b) Tuesday**	—
20	**16; cycle**	32 − 10 − 6

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