

Data Handling and Presentation

Mental Ability Worksheet (Solve without using pen, paper or calculator)

Name:	Class: 6	Section:	Date:
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Instructions: This is a mental mathematics test. Do NOT use pen, paper or a calculator for working — solve every question in your head and write only the final answer. Time: 20 minutes. Total Marks: 25

Mixed Mental Ability Questions (25 × 1 = 25 Marks)

1. A collection of facts and figures that gives information is called _____. *[Fill in the Blank]*
2. Which of these counts observations in groups of five? *[MCQ]*
(a) Bar graph (b) Tally marks (c) Pictograph key (d) Frequency
3. A pictograph always uses numbers instead of pictures. *[True / False]*
4. If 1 symbol in a pictograph = 5 apples, how many apples do 4 symbols show? *[Solve Mentally]*
5. The number of times an item occurs in data is called its _____. *[Fill in the Blank]*
6. A bar is 3 units tall, and the scale is 1 unit = 10 students. How many students does the bar represent? *[Solve Mentally]*
7. The scale of a graph tells us what one unit or symbol stands for. *[True / False]*
8. A tally mark for the number five looks like: *[MCQ]*
(a) ||||| (b)  (c) IIIII (d) None of these
9. Arrange mentally: 7, 3, 9, 5 in ascending order. What is the smallest number? *[Solve Mentally]*
10. Bar graphs use bars of _____ width with equal spacing. *[Fill in the Blank]*
11. If a pictograph symbol = 10 and there are 2.5 symbols, what number does it show? *[Solve Mentally]*
12. Data handling includes only collecting data, and nothing else. *[True / False]*
13. Which graph best shows data using small pictures? *[MCQ]*
(a) Pictograph (b) Frequency table (c) Tally chart (d) Number line
14. 5 students like Maths, 3 like Science, and 2 like English. How many students were surveyed in total? *[Solve Mentally]*
15. The vertical line of a bar graph usually shows the _____ or values. *[Fill in the Blank]*

16. If 1 unit length = 100 kg and a bar is 5 units tall, what weight does it show? *[Solve Mentally]*
17. In a bar graph, all bars must touch each other with no gap. *[True / False]*
18. What is the most popular item in a data set called? *[MCQ]*
(a) The one with lowest frequency (b) The one with highest frequency (c) The first item listed (d) The last item listed
19. A shop sold 6 pens on Monday and 9 pens on Tuesday. How many pens were sold in the two days together? *[Solve Mentally]*
20. Data must first be _____ before we can present it as a graph. *[Fill in the Blank]*
21. If the tallest bar shows 40 and the shortest shows 10, what is the difference between them? *[Solve Mentally]*
22. A frequency table can be made using tally marks. *[True / False]*
23. A bar graph with vertical bars is also known as a: *[MCQ]*
(a) Row graph (b) Column graph (c) Line graph (d) Pie chart
24. If 1 symbol = 2 books and a row shows 5 symbols, how many books does it represent? *[Solve Mentally]*
25. Making a graph attractive with pictures and colours, while keeping data accurate, is called making an _____. *[Fill in the Blank]*

Answer Key — Mental Ability Worksheet

1. data
2. (b) Tally marks
3. False
4. 20 apples (4×5)
5. frequency
6. 30 students (3×10)
7. True



8. (b)
9. 3 (smallest of 7, 3, 9, 5)
10. uniform / equal
11. 25 (2.5×10)
12. False (it also includes organising, presenting and interpreting data)
13. (a) Pictograph
14. 10 students ($5 + 3 + 2$)
15. frequency
16. 500 kg (5×100)
17. False (bars must have equal gaps between them, not touch each other)
18. (b) The one with highest frequency
19. 15 pens ($6 + 9$)
20. collected and organised
21. 30 ($40 - 10$)
22. True
23. (b) Column graph
24. 10 books (5×2)
25. infographic