

**CLASS VII – MATHEMATICS – CHAPTER 02**  
**DATA HANDLING**

Name: \_\_\_\_\_

Date: \_\_\_\_\_

- 01.** The ages in years of 10 teachers of a school are: 32, 41, 28, 54, 35, 26, 23, 33, 38, 40. What is the age of the oldest teacher?  
(a). 54 years                      (b). 23 years                      (c). 40 years                      (d). 28 years
- 02.** Following are the marks in a class assessment. What is the range of the data?  
**4 6 7 5 3 5 4 5 2 6 2 5 1 9 6 5 8 4 6 7**  
(a). 9                                      (b). 8                                      (c). 1                                      (d). 2
- 03.** The mode of the given set of numbers: 1, 1, 2, 4, 3, 2, 1, 2, 2, 4 is \_\_\_\_\_.  
(a). 4                                      (b). 3                                      (c). 2                                      (d). 1
- 04.** Find the median of the data: 24, 36, 46, 17, 18, 25, 35.  
(a). 20                                      (b). 24                                      (c). 17                                      (d). 25
- 05.** The scores in mathematics test (out of 25) of 15 students is as follows:  
**19, 25, 23, 20, 9, 20, 15, 10, 5, 16, 25, 20, 24, 12, 20**  
Find the median of this data.  
(a). 9                                      (b). 15                                      (c). 20                                      (d). 25
- 06.** The mode of the given numbers **2, 14, 16, 12, 14, 14, 16, 14, 10, 14, 18, 14** is \_\_\_\_\_.  
(a). 12                                      (b). 14                                      (c). 16                                      (d). 18
- 07.** The runs scored in a cricket match by 11 players is as follows: 6, 15, 120, 50, 100, 80, 10, 15, 8, 10, 15.  
Find the median of this data.  
(a). 10                                      (b). 100                                      (c). 15                                      (d). 50
- 08.** The rainfall (in mm) in a city on 7 days of a certain week was recorded as follows:  
Day                      Mon    Tue    Wed    Thurs    Fri    Sat    Sun  
Rainfall (in mm)    0.0    12.2    2.1    0.0    20.5    5.5    1.0  
Find the range of the rainfall in the above data.  
(a). 20                                      (b). 15                                      (c). 4.5                                      (d). 20.5
- 09.** There are 6 marbles in a box with numbers from 1 to 6 marked on each of them. What is the probability of drawing a marble with number 5?  
(a). 1                                      (b). 1/2                                      (c). 1/3                                      (d). 1/6
- 10.** Following are the marks in a class assessment. Which number is the lowest?  
**4 6 7 5 3 5 4 5 2 6 2 5 1 9 6 5 8 4 6 7**  
(a). 1                                      (b). 9                                      (c). 3                                      (d). 8
- 11.** Find the median of the data: **13, 16, 12, 14, 19, 12, 14, 13, 14.**  
(a). 13                                      (b). 12                                      (c). 14                                      (d). 16
- 12.** Following are the marks in a class assessment. Which number is the highest?  
**4 6 7 5 3 5 4 5 2 6 2 5 1 9 6 5 8 4 6 7**  
(a). 9                                      (b). 1                                      (c). 3                                      (d). 8
- 13.** The heights of 10 girls were measured in cm and the results are as follows: **135, 150, 139, 128, 151, 132, 146, 149, 143, 141.** What is the height of the tallest girl?  
(a). 135                                      (b). 151                                      (c). 141                                      (d). 128

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14. The weights (in kg.) of 15 students of a class are: **38, 42, 35, 37, 45, 50, 32, 43, 43, 40, 36, 38, 43, 38, 47**. Find the median of this data.  
(a). 42                      (b). 50                      (c). 40                      (d). 37
15. The heights of 10 girls were measured in cm and the results are as follows: **135, 150, 139, 128, 151, 132, 146, 149, 143, 141**. What is the range of the data?  
(a). 25                      (b). 20                      (c). 12                      (d). 23
16. Following are the marks in a class assessment. Which number is the lowest?  
**4 6 7 5 3 5 4 5 2 6 2 5 1 9 6 5 8 4 6 7**  
(a). 1                      (b). 9                      (c). 3                      (d). 8
17. Find the median of the data: **13, 16, 12, 14, 19, 12, 14, 13, 14**.  
(a). 13                      (b). 12                      (c). 14                      (d). 16
18. The data **6, 4, 3, 8, 9, 12, 13, 9** has mean \_\_\_\_\_.  
(a). 2                      (b). 4                      (c). 12                      (d). 8
19. The mode of the given numbers **2, 6, 5, 3, 0, 3, 4, 3, 2, 4, 5, 2, 4** is \_\_\_\_\_.  
(a). 5                      (b). 4                      (c). 3                      (d). 2

**Q01.** Fill in the blanks:

- (a). \_\_\_\_\_ is a measure of the central tendency of the group of data.  
(b). \_\_\_\_\_ help to compare two collections of data at a glance.  
(c). Before \_\_\_\_\_ data we need to know what we would use it for.  
(d). \_\_\_\_\_ lies between the highest and the lowest value of the given data.  
(e). A data always has a \_\_\_\_\_.  
(f). The \_\_\_\_\_ of two numbers will always lie between the two numbers.  
(g). When a coin is thrown, it has \_\_\_\_\_ possible outcomes.  
(h). The difference between the highest and the lowest observation is the \_\_\_\_\_ of the observation.  
(i). When a die is thrown, it has \_\_\_\_\_ possible outcomes.  
(j). The \_\_\_\_\_ of a set of observations is the observation that occurs most often.  
(k). \_\_\_\_\_ refers to the value which lies in the middle of the data with half of the observations above it and the other half below it.  
(l). The \_\_\_\_\_ is always one of the numbers in a data.  
(m). A \_\_\_\_\_ is a representation of numbers using bars of uniform widths.

**Q01.** John studies for 4 hours, 5 hours and 3 hours respectively on three consecutive days. How many hours does he study daily on an average?

**Q02.** A cricketer scores the following runs in eight innings: 58, 76, 40, 35, 46, 45, 0, 100. Find the mean score.

**Q03.** Following are the marks in a class assessment. 4 6 7 5 3 5 4 5 2 6 2 5 1 9 6 5 8 4 6 7. Find the arithmetic mean.

**Q04.** Heights (in cm) of 25 children are given below: What is the mode of their heights?

**168, 165, 163, 160, 163, 161, 162, 164, 163, 162, 164, 163, 160, 163, 16, 165, 163, 162, 163, 164, 163, 160, 165, 163, 162.**

**Q05.** A batsman scored the following number of runs in six innings: **36, 35, 50, 46, 60, 55**

Calculate the mean runs scored by him in an inning.

- Q06.** The marks (out of 100) obtained by a group of students in a science test are **85, 76, 90, 85, 39, 48, 56, 95, 81, 75**. Find the:
- Highest and the lowest marks obtained by the students.
  - Range of the marks obtained.
  - Mean marks obtained by the group.

**Q07.** The ages in years of 10 teachers of a school are: **32, 41, 28, 54, 35, 26, 23, 33, 38, 40**. What is the mean age of these teachers?

**Q08.** Following are the margins of victory in the football matches of a league.

**1, 3, 2, 5, 1, 4, 6, 2, 5, 2, 2, 2, 4, 1, 2, 3, 1, 1, 2, 3, 2, 6, 4, 3, 2, 1, 1, 4, 2, 1, 5, 3, 3, 2, 3, 2, 4, 2, 1, 2.**

Find the mode of this data.

**Q09.** Find the mean of the first five whole numbers.

**Q10.** Find the mode of the following data:

**12, 14, 12, 16, 15, 13, 14, 18, 19, 12, 14, 15, 16, 15, 16, 16, 15, 17, 13, 16, 16, 15, 15, 13, 15, 17, 15, 14, 15, 13, 15, 14**

**Q11.** Number of children in six different classes are given below. Represent the data on a bar graph.

Class	Fifth	Sixth	Seventh	Eighth	Ninth	Tenth
Number of Children	135	120	95	100	90	80

**Q12.** Two hundred students of 6th and 7th class were asked to name their favourite colour so as to decide upon what should be the colour of their School Building. The results are shown in the following table. Represent the given data on a bar graph.

Favourite Colour	Red	Green	Blue	Yellow	Orange
Number of Students	43	19	55	49	34

**Q13.** A mathematics teacher wants to see, whether the new technique of teaching she applied after quarterly test was effective or not. She takes the scores of the 5 weakest children in the quarterly test (out of 25) and in the half yearly test (out of 25):

Students	Ashish	Arun	Kavish	Maya	Rita
Quarterly	10	15	12	20	9
Half yearly	15	18	16	21	15

Represent the above data in double bar graph.

**Q14.** Following data gives total marks (out of 600) obtained by six children of a particular class. Represent the data on a bar graph.

Students	Ajay	Bali	Dipti	Faiyaz	Geetika	Hari
Marks Obtained	450	500	300	360	400	540