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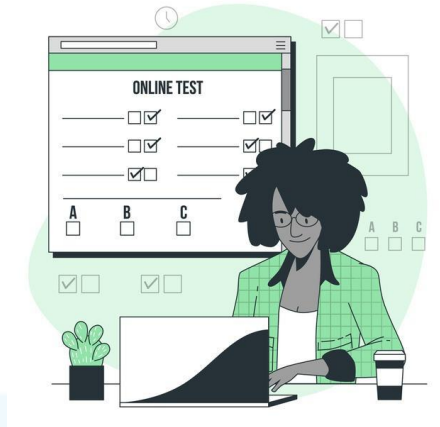
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## Mean, Median, Mode Worksheet-4

- 1) Jenna took four tests, for which her mean score was 28. Later on, it was found that her score in the English test was recorded wrong as 15 instead of 51. Calculate the corrected mean score.



- 2) State whether true or false:
- Quartiles divide data into four equal parts.
  - When all observations are equal, Arithmetic Mean = Geometric Mean = Harmonic Mean
- 3) Chris mows the lawn for 9 houses in the neighborhood. The mean of his earnings from three houses is \$31. What is the new mean if she earns \$33 from the fourth house?



- 4) The recordings in a data set are observed as:  
23, 42, 21, 17, 91, 25, 34  
It was later noted that the number 91 was misread as 91 and a new recording 27 was added. Find the corrected mean median, and mode.

- 5) The arithmetic mean of a set of 10 numbers is 20. If each number is first multiplied by 3 and then increased by 5, then what is the mean of new numbers?
- 6) The weights in kg of 10 students are given below:  
38, 43, 36, 39, 47, 51, 33, 44, 44, 43  
Find the mode of this data. Is there more than 1 mode?
- 7) The mean age of the combined group of men and women is 25 years. If the mean age of a group of men is 27 and that of a group of women is 20, then the percentage of men and women in the group respectively is:



- 8) In a class of 46 students a boy is ranked 20th. When two boys joined, his rank was dropped by one. What is his new rank from the end?
- 9) The mean of 9 observations is 17. One more observation is included, and the new mean becomes 18. The 10th observation is \_\_\_\_.
- 10) Calculate the mean and mode:

$x_i$	1	2	3	4	5
$f_i$	2	5	7	10	6

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- Barbara Cabrera

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**ANSWERS**

1)	37
2)	a) True b) True
3)	32.33
4)	25; 23; 13, 20, 21, 25, 33, 42, 19, 27
5)	65
6)	43, 44
7)	28.57, 71.43
8)	26
9)	27
10)	3.43; 4



## FUN FACT

1. Relation between mean median and mode is :  
 $\text{Mean} - \text{Mode} = 3 (\text{Mean} - \text{Median})$
2. For symmetrical frequency,  
 $\text{Mean} = \text{Median} = \text{Mode}$
3. For Positively Skewed frequency distribution:  
 $\text{Mean} > \text{Median} > \text{Mode}$   
For Negatively Skewed Frequency Distribution:  
 $\text{Mean} < \text{Median} < \text{Mode}$

