



**UNITY TRAINING**  
ACADEMY FOR DDCET

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Practice Set 1 **Solution**

# Mathematics

## STATISTICS

**Topics :**

1. Mean, Median and Mode for ungrouped data

**DDCET final exam weightage of this topic :** 1 Question ( 2 Marks )

**Total Practice sets  
of this topic :**

$2 \text{ ( sets ) } \times 20 \text{ ( questions ) } = 40 \text{ Questions}$

**Total Practice tests  
of this topic :**

$2 \text{ ( exams ) } \times 20 \text{ ( questions ) } = 40 \text{ Questions}$

**Offline / Online  
during lecture :**

$4 \text{ ( lectures ) } \times 50 \text{ ( Questions ) } = 200 \text{ Question}$





# UNITY TRAINING ACADEMY FOR DDCET

## Section 2 : 1. Mean, Median and Mode for ungrouped data

1. The mean of the numbers 7, 10, 13, 16, and 19 is:
  - (A) 12
  - (B) 13 ✓
  - (C) 14
  - (D) 15
2. The mean of five numbers is 20. If four of the numbers are 18, 22, 17, and 21, what is the fifth number?
  - (A) 22 ✓
  - (B) 23
  - (C) 24
  - (D) 25
3. The mean of 9 numbers is 15. If one number 18 is removed, what is the new mean?
  - (A) 14
  - (B) 14.25
  - (C) 14.5 ✓
  - (D) 15
4. If each observation in a dataset is increased by 5, then the mean:
  - (A) Increases by 5 ✓
  - (B) Decreases by 5
  - (C) Remains the same
  - (D) Gets doubled
5. The mean of 4 numbers is 40. If a new number 50 is added, what is the new mean?
  - (A) 41
  - (B) 42 ✓
  - (C) 43
  - (D) 44
6. The median of the dataset {5, 9, 12, 18, 25} is:
  - (A) 9
  - (B) 12 ✓
  - (C) 18
  - (D) 25
7. Find the median of the numbers {7, 10, 13, 17, 20, 24}.
  - (A) 14
  - (B) 15 ✓
  - (C) 16
  - (D) 17
8. The median of {6, 8, 12, 15, 20, 25, 30} is:
  - (A) 12
  - (B) 15 ✓
  - (C) 20
  - (D) 25
9. The median of {2, 4, 6, 8, 10, 12} is:
  - (A) 6
  - (B) 7 ✓
  - (C) 8
  - (D) 9
10. If a dataset has an even number of elements, the median is found by:
  - (A) The smallest value
  - (B) The middle value
  - (C) The mean of the two middle values ✓
  - (D) The largest value

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**Section 2 :** 1. Mean, Median and Mode for ungrouped data

11. The mode of {3, 5, 7, 7, 9, 11} is:  
(A) 3  
(B) 5  
(C) 7 ✓  
(D) 9
12. The mode of {4, 4, 5, 6, 6, 6, 7} is:  
(A) 4  
(B) 5  
(C) 6 ✓  
(D) 7
13. A set of 10 numbers has a mean of 50. What is their total sum?  
(A) 450  
(B) 500 ✓  
(C) 550  
(D) 600
14. The mean of 10 numbers is 12. If 9 numbers are 10, 11, 12, 13, 9, 14, 8, 15, and 7, what is the 10th number?  
(A) 16  
(B) 17  
(C) 18  
(D) 21 ✓
15. The mean of 7 numbers is 8. If 6 numbers are 5, 7, 9, 10, 6, and 8, what is the 7th number?  
(A) 10  
(B) 11 ✓  
(C) 12  
(D) 13
16. The mode of {2, 2, 4, 4, 6, 6} is:  
(A) 2  
(B) 4  
(C) 6  
(D) No mode ✓
17. Find the median of the data set: 21, 23, 25, 27, 29.  
(A) 23  
(B) 24  
(C) 25 ✓  
(D) 26
18. Find the median of the data set: 6, 12, 18, 24, 30, 36, 42, 48.  
(A) 21  
(B) 24  
(C) 27 ✓  
(D) 30
19. The mean of 9 numbers is 10. If 8 numbers are 8, 9, 10, 11, 7, 12, 6, and 13, what is the 9th number?  
(A) 14 ✓  
(B) 15  
(C) 16  
(D) 17
20. The mean of 3 numbers is 12. If 2 numbers are 10 and 14, what is the 3rd number?  
(A) 10  
(B) 11  
(C) 12 ✓  
(D) 13

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