

Sheet – 04: Summary Statistics

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- 1) What is the **range** of the following set of numbers:  
**2, 5, 7, 10, 12**?
  - (a) 8
  - (b) 10
  - (c) 12
  - (d) 14
- 2) What is the **mean** of the following set of numbers:  
**3, 5, 7, 9, 11**?
  - (a) 5
  - (b) 6
  - (c) 7
  - (d) 8
- 3) What is the **median** of the following set of numbers: **1, 3, 5, 7, 9**?
  - (a) 3
  - (b) 5
  - (c) 7
  - (d) 9
- 4) What is the standard deviation of the following set of numbers: **1, 2, 3, 4, 5**?
  - (a) 1.41
  - (b) 1.58
  - (c) 1.73
  - (d) 2.00
- 5) In a stem and leaf plot, what does the **stem** represent?
  - (a) The least significant digit
  - (b) The most significant digit
  - (c) The median
  - (d) The mode
- 6) In a dot plot, what does each **dot** represent?
  - (a) A range of values
  - (b) A single value
  - (c) The mean
  - (d) The median
- 7) In a histogram, what does the **height of each bar** represent?
  - (a) The range of values
  - (b) The mean
  - (c) The median
  - (d) The frequency of a range of values
- 8) In a stem and leaf plot, what does the **leaf** represent?
  - (a) The least significant digit
  - (b) The most significant digit
  - (c) The median
  - (d) The mode
- 9) If the mean of three numbers is 7 and two of the numbers are 5 and 9, what is the third number?
  - (a) 5
  - (b) 7
  - (c) 9
  - (d) 10
- 10) The mean of four numbers is 8. If three of the numbers are 6, 8, and 10, what is the fourth number?
  - (a) 8
  - (b) 10
  - (c) 12
  - (d) 14
- 11) In a small basketball team, the average score of three players is 7 points. If two of the players scored 5 and 9 points, how many points did the third player score?
  - (a) 5
  - (b) 7
  - (c) 9
  - (d) 10
- 12) Four friends decided to measure their heights. The average height turned out to be 8 feet. If three of them are 6, 8, and 10 feet tall, how tall is the fourth friend?
  - (a) 8
  - (b) 10
  - (c) 12
  - (d) 14
- 13) A teacher calculated the average grade of five students, which turned out to be 10. If four of the students scored 8, 10, 12, and 14, what was the grade of the fifth student?
  - (a) 6
  - (b) 8
  - (c) 10
  - (d) 12
- 14) Ten runners participated in a marathon, and the average time taken to complete the race was 9 hours. If nine of the runners finished in 8, 8, 9, 9, 10, 10, 10, and 10 hours, how long did the tenth runner take?
  - (a) 4 hours
  - (b) 5 hours
  - (c) 6 hours
  - (d) 7 hours
- 15) Eight scientists are measuring the average temperature of a region, which is 8 degrees Celsius. If seven of the measurements are 6, 7, 8, 9, 10, 11, and 12 degrees, what is the eighth measurement?
  - (a) 4 degrees
  - (b) 1 degrees
  - (c) 6 degrees
  - (d) 8 degrees

- (d) 3 degrees
- 16) A set of data includes the numbers 2, 3, 3, 4, 5, 6, 6, 6, 7, 8. What is the **mode** of this data set?
- (a) 3
  - (b) 4
  - (c) 5
  - (d) 6
- 17) The mean of a data set is 10, and one of the data points is 15. What is the **deviation** of this data point from the mean?
- (a) -5
  - (b) 0
  - (c) 5
  - (d) 10
- 18) A set of data includes the numbers 1, 2, 2, 3, 3, 3, 4, 4, 4, 4. What is the mode of this data set?
- (a) 1
  - (b) 2
  - (c) 3
  - (d) 4
- 19) In a small town, the most common age of people is 25 years old. However, John is 30 years old. What is John's deviation from the mode age in the town?
- (a) -5 years
  - (b) 0 years
  - (c) 5 years
  - (d) 25 years
- 20) In a class of students, the most common score on a test was 85. If Sarah scored 90 on the test, what is her deviation from the mode score?
- (a) -5
  - (b) 0
  - (c) 5
  - (d) 85
- 21) In an electronics lab, students are measuring the current passing through a circuit. The most common measurement recorded by the students is 15 Amperes. However, Alice's equipment records a current of 18 Amperes. What is Alice's deviation from the mode current measurement?
- (a) -3 Amperes
  - (b) 0 Amperes
  - (c) 3 Amperes
  - (d) 15 Amperes