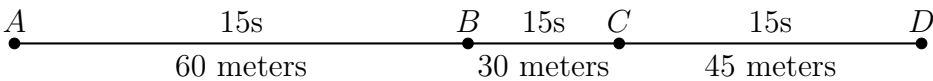


[**N.B.** – The figures of the right margin indicate full marks. Read the stems carefully and answer the associated questions. Answer all the questions.]

1. Write two primary uses of central tendency.1
2. If $\bar{X} = 3$, and $n = 10$, what is $\sum X_i$?2
3. Find Geometric Mean for these values: 2, 4, 81
4. Find median: 7, 2, 4, 5, 6, 10 and explain the value2
5. A data set has the following values: 5, 10, 20, 30. Find AM, GM, HM, Median, and Mode and order the results in ascending order.4
6. **A vehicle moves along the path ABCD, covering each segment at a uniform velocity.**

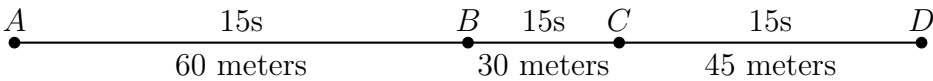


- (a) What is the formula of harmonic mean?1
- (b) When should we use the harmonic mean?2
- (c) Find the average velocity of the vehicle.3
- (d) Compare the average speed estimated using the arithmetic and harmonic mean and verify their suitability in the given situation.4

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