

If A = [2,-3,7] and B = [-4,2,-4], find the dot product of the vectors A and B.

- A. 42
- B. -42
- C. 12
- D. 22



If A = [2,-3,7] and B = [-4,2,-4], find the dot product of the vectors A and B.

- A. 42
- B. -42
- C. 12
- D. 22



## What is/are true about scalars and vectors?

5

- A. Scalar quantities can be described by specifying only their magnitude
- B. Distance is an example of a vector quantity
- C. Vectors are represented using a lowercase letter with an arrow on top like  $x^{\rightarrow}$
- D. Vector quantities require both magnitude and direction



#### What is/are true about scalars and vectors?

- A. Scalar quantities can be described by specifying only their magnitude
- B. Distance is an example of a vector quantity
- C. Vectors are represented using a lowercase letter with an arrow on top like  $x^{\rightarrow}$
- D. Vector quantities require both magnitude and direction



The correct answer is **A,C, and D** 

Scalar quantities can be described by specifying only their magnitude. Vectors require both magnitude and direction and are represented using lowercase letters with an arrow on top.

- A. The middle value in a dataset
- B. The most frequently occurring data point in a dataset
- C. The average value in a dataset
- D. The difference between the largest and smallest data points in a dataset



#### What is the mode in statistics?

- A. The middle value in a dataset
- B. The most frequently occurring data point in a dataset
- C. The average value in a dataset
- D. The difference between the largest and smallest data points in a dataset



The correct answer is **B** 

Mode is the most frequently occurring data point in a dataset.

# What does a positive skewness value indicate?

- A. The data is skewed left, that is, the left tail is longer than the right tail.
- B. The data is skewed right, that is, the right tail is longer than the left tail.
- C. The data has a near 0 skewness.
- D. The data is symmetric.



4

# What does a positive skewness value indicate?

- A. The data is skewed left, that is, the left tail is longer than the right tail.
- B. The data is skewed right, that is, the right tail is longer than the left tail.
- C. The data has a near 0 skewness.
- D. The data is symmetric.



#### The correct answer is **B**

A positive skewness value indicates that the data is skewed right, that is, the right tail is longer than the left tail.

