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QUESTION 1

What is the median of the data set?

- A. 80
- B. 83
- C. 85
- D. 86

Correct Answer: B

QUESTION 2

What is the probability of selecting a face card of a spade suit from two standard decks of cards?

- A. $\frac{3}{52}$
- B. $\frac{6}{52}$
- C. $\frac{6}{104}$
- D. $\frac{46}{104}$

Correct Answer: C

You are asked to determine the probability of randomly selecting one face card (king, queen, or jack) of a spade suit from two standard decks of cards. Because there are two decks of cards, a single card can be selected from two decks in $n = 104$ different ways. Since there are 3 face cards of a spade suit in one deck of cards, such a card can be drawn from the two decks in $s = 6$ different ways. Thus, the probability that the selected card is a face card of a spade suit is: $p = \frac{s}{n} = \frac{6}{104}$

QUESTION 3

What is the average of the numbers 24, 53, 70, 89, 34, and 30?

- A. 84
- B. 39
- C. 71
- D. 50

Correct Answer: D

The average of a set of numbers is calculated by:



$$\text{Avg} = \frac{24 + 53 + 70 + 89 + 34 + 30}{6} = \frac{300}{6} = 50.$$

QUESTION 4

Express in scientific notation: 13.9

- A. 1.39×10^1
- B. 1.39×10^2
- C. 13.9×10^1
- D. 13.9×10^2

Correct Answer: B

In scientific notation, the number 13.9 is 1.39×10^1 .

QUESTION 5

What is the solution of the inequality $3x - 9 > 1 - 2x + 9$?

A. $x > \frac{1}{2}$

B. $x < \frac{1}{2}$

C. $x > 2$

D. $x < 2$

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: C

To solve the inequality $3x - 9 > 1 - 2x + 9$, you need to collect like terms of x on one side of the inequality and all other values to the other side. You first add 9 to both sides of the inequality:

$$3x - 9 + 9 > 1 - 2x + 9$$

$$3x > 10 - 2x.$$

You then add $2x$ to both sides of the inequality:



$$3x + 2x > 10 - 2x + 2x$$

$$5x > 10.$$

Dividing both sides by 5 yields $x > 2$.

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