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Statistics Practice

30 Minutes - (Don't skip any questions)

1) If Hritik paid an average of \$25 per sweater for four sweaters, and the average of the sweaters other than the most expensive sweater was \$20, how much did he pay for the most expensive sweater?

A. \$30

B. \$35

C. \$40

D. \$50

E. \$60

2) Quantitative Comparison:

The product of two integers is 10.

Quantity A	Quantity B
The arithmetic mean of the integers.	3

A. A > B

B. B > A

C. A = B

D. Can't be determined

3) What is the arithmetic mean of the number of degrees in the interior angles of a pentagon and a hexagon?

A. 112

B. 114

C. 115

D. 116

E. None

4) Which of the following expressions represents the arithmetic mean (average) of the five terms p, q, p+q, p-1 and q+1?

A. $\frac{3}{5}(p+q)$ B. $\frac{2}{5}(p+q)$ C. (p+q) D. 3(p+q) E. 5(p+q)

5) The mean monthly salary paid to all employees in a company was \$500. The mean monthly salaries paid to male and female employees were \$520 and \$420 respectively. Determine the percentage of males in the company.

A. 60

B. 70

C. 80

D. 85

E. None

6) If the mean of a given set of five positive integers is the highest value of the set, which of the following is/are true?

I. Range = 0

II. Standard Deviation = 0

III. All the values are equal to the mean.

A. I only

B. II only

C. III only

D. None

E. I, II and III

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7) The average weight for a group of 25 boys was calculated to be $80 \, lbs$. It was later discovered that one weight was misread as 69 lbs. instead of the correct value of 96 lbs. Calculate the correct mean.

A. 78.92

B. 81.08

C. 81.8

D. 82

E. None

8) A train travels first $300 \ miles$ at an average rate of $30 \ miles/hr$ and further travels the same distance at an average rate of $40 \ miles/hr$. What is the average speed (in miles/hr) over the whole distance?

A. 35

B. 34.28

C. 34.028

D. 34

E. None

9) If the sum of three numbers is 4x and the sum of four other numbers is 3x, then the average (arithmetic mean) of all seven numbers is;

A. 7*x*

B. 7

C. *x*

D. x/7

E. 1

10) If a sum of money is divided equally among n children, each child will receive \$60. If another child is added to the group, then when the sum is divided equally among all the children, each child will receive a \$50 share. What is the sum of money?

A. \$3000

B. \$300

C. \$110

D. \$100

E. None

11) Quantitative Comparison:

M is the average (arithmetic mean) of x and y.

Quantity B
$\frac{x+y}{2}$

A. A > B

B. B > A

C. A = B

D. Can't be determined

12) Which of the following is always true for a set of three consecutive integers?

I. Median = Mean II. $Standard\ Deviation = \sqrt{\frac{2}{3}}$ III. Range is equal to the middle term

A. I only

B. II only

C. III only

D. I and II

E. I and III

13) Quantitative Comparison:

Quantity A	Quantity B
Standard Deviation of (4, 4, 4)	Standard Deviation of $(1,0,1)$

A. A > B

B. B > A

C. A = B

D. Can't be determined

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14) Quantitative Comparison:

Quantity A	Quantity B
The arithmetic mean of 100, 101 and 103	The median of 100, 101 and 103

- A. A > B
- B. B > A
- C. A = B
- D. Can't be determined
- 15) If half the range of the increasing series $\{11, A, 23, B, C, 68, 73\}$ is equal to its median, what *CANNOT* be the value of *C*?
 - A. 54
- B. 30
- C. 31
- D. 65
- E. 47
- 16) The only test scores for the students in a certain class are 44, 30, 42, 30, x, 44 and 30. If x equals one of the other scores and is a multiple of 5, what is the mode for the class?
 - A. 5
- B. 6
- C. 15
- D. 30
- E. 44