



MATHS

BOOKS - JEE MAINS PREVIOUS YEAR

ENGLISH

STATISTICS

Others

1. The mean of the numbers $a, b, 8, 5, 10$ is 6 and the variance is 6.80. Then which one of the

following gives possible values of a and b ? (1)

$a = 0, b = 7$ (2) $a = 5, b = 2$ (3) $a = 1, b = 6$

(4) $a = 3, b = 4$



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2. If the mean deviation of the numbers $1, 1 + d, 1 + 2d, \dots, 1 + 100d$ from their mean is 255, then the d is equal to (1) 10.0 (2) 20.0 (3) 10.1 (4) 20.2



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3. For two data sets, each of size 5, the variances are given to be 4 and 5 and the corresponding means are given to be 2 and 4, respectively. The variance of the combined data set is (1) $\frac{11}{2}$ (2) 2 (3) $\frac{13}{2}$ (4) $\frac{5}{2}$



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4. If the mean deviation about the median of the numbers $a, 2a, \dots, 50a$ is 50, then $|a|$ equals : (1) 2 (2) 3 (3) 4 (4) 5



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5. All the students of a class performed poorly in Mathematics. The teacher decided to give grace marks of 10 to each of the students.

Which of the following statistical measures will not change even after the grace marks

were given ? (1) median (2)

mode (3) variance (4) mean



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6. The variance of first 50 even natural numbers is (1) $\frac{833}{4}$ (2) 833 (3) 437 (4) $\frac{437}{4}$



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7. The mean of the data set comprising of 16 observations is 16. If one of the observation valued 16 is deleted and three new observations valued 3, 4 and 5 are added to the data, then the mean of the resultant data,

is : (1) 16.8

(2) 16.0

(3)

15.8

(4) 14.0



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