

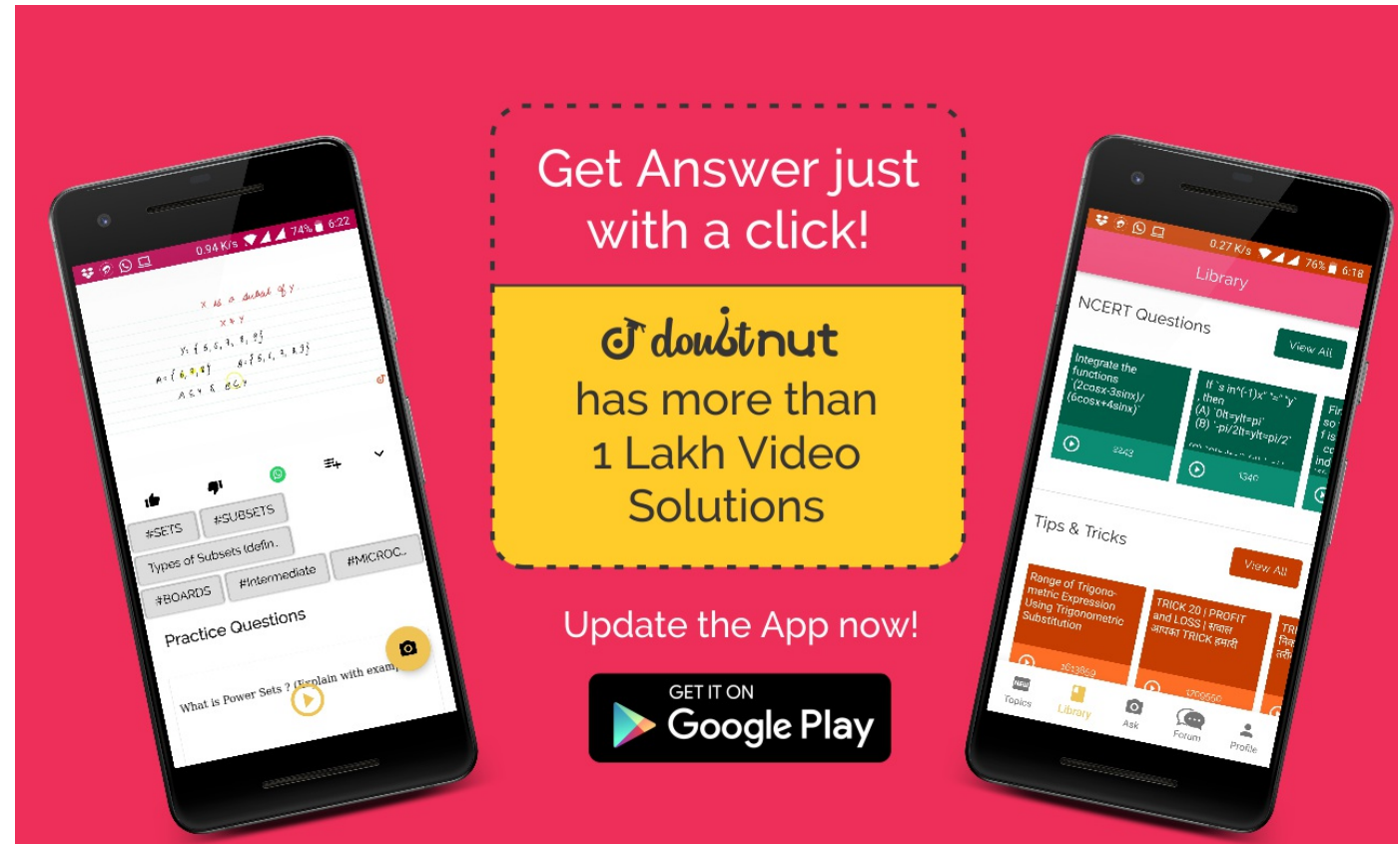
Ques No.	Question
1	<p>NCERT - CLASS 11 - CHAPTER 15 STATISTICS - EXERCISE 15.1 - Q 1</p> <p>Find the mean deviation about the mean for the data :</p> <p>4, 7, 8, 9, 10, 12, 13, 17</p> <p>▶ Watch Free Video Solution on Doubtnut</p>
2	<p>NCERT - CLASS 11 - CHAPTER 15 STATISTICS - EXERCISE 15.1 - Q 2</p> <p>Find the mean deviation about the mean for the data :</p> <p>38, 70, 48, 40, 42, 55, 63, 46, 54, 44</p> <p>▶ Watch Free Video Solution on Doubtnut</p>
3	<p>NCERT - CLASS 11 - CHAPTER 15 STATISTICS - EXERCISE 15.1 - Q 3</p> <p>Find the mean deviation about the median for the data :</p> <p>13, 17, 16, 14, 11, 13, 10, 16, 11, 18, 12, 17</p> <p>▶ Watch Free Video Solution on Doubtnut</p>
4	<p>NCERT - CLASS 11 - CHAPTER 15 STATISTICS - EXERCISE 15.1 - Q 4</p> <p>Find the mean deviation about the median for the data :</p> <p>36, 72, 46, 42, 60, 45, 53, 46, 51, 49</p> <p>▶ Watch Free Video Solution on Doubtnut</p>

NCERT - CLASS 11 - CHAPTER 15 STATISTICS - EXERCISE 15.1 - Q 5

5

Find the mean deviation about the mean for the data : x_i 5 10 15 20 25 f_i 7 4 6 3 5[▶ Watch Free Video Solution on Doubtnut](#)


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6

NCERT - CLASS 11 - CHAPTER 15 STATISTICS - EXERCISE 15.1 - Q 6Find the mean deviation about the mean for the data : x_i 10 30 50 70 90 f_i 4 24 28 16 8[▶ Watch Free Video Solution on Doubtnut](#)

7

NCERT - CLASS 11 - CHAPTER 15 STATISTICS - EXERCISE 15.1 - Q 7Find the mean deviation about the median for the data : x_i 5 7 9 10 12 15 f_i 8 6 2 2 2 6[▶ Watch Free Video Solution on Doubtnut](#)

8

NCERT - CLASS 11 - CHAPTER 15 STATISTICS - EXERCISE 15.1 - Q 8Find the mean deviation about the median for the data : x_i 15 21 27 30 35 f_i 3 5 6 7 8[▶ Watch Free Video Solution on Doubtnut](#)

9

NCERT - CLASS 11 - CHAPTER 15 STATISTICS - EXERCISE 15.1 - Q 9Find the mean deviation about the mean for the data :

Income	0-100	100-200
200-300	300-400	400-500
500-600	600-700	700-800
per day	Number	4
8	9	10
		7
		5
		4
		3
		of persons

[▶ Watch Free Video Solution on Doubtnut](#)**NCERT - CLASS 11 - CHAPTER 15 STATISTICS - EXERCISE 15.1 - Q 10**Find the mean deviation about the mean for the data :

Height	95-105	105-
115	115-125	125-135
	135-145	145-155
	in cms	Number of
		9

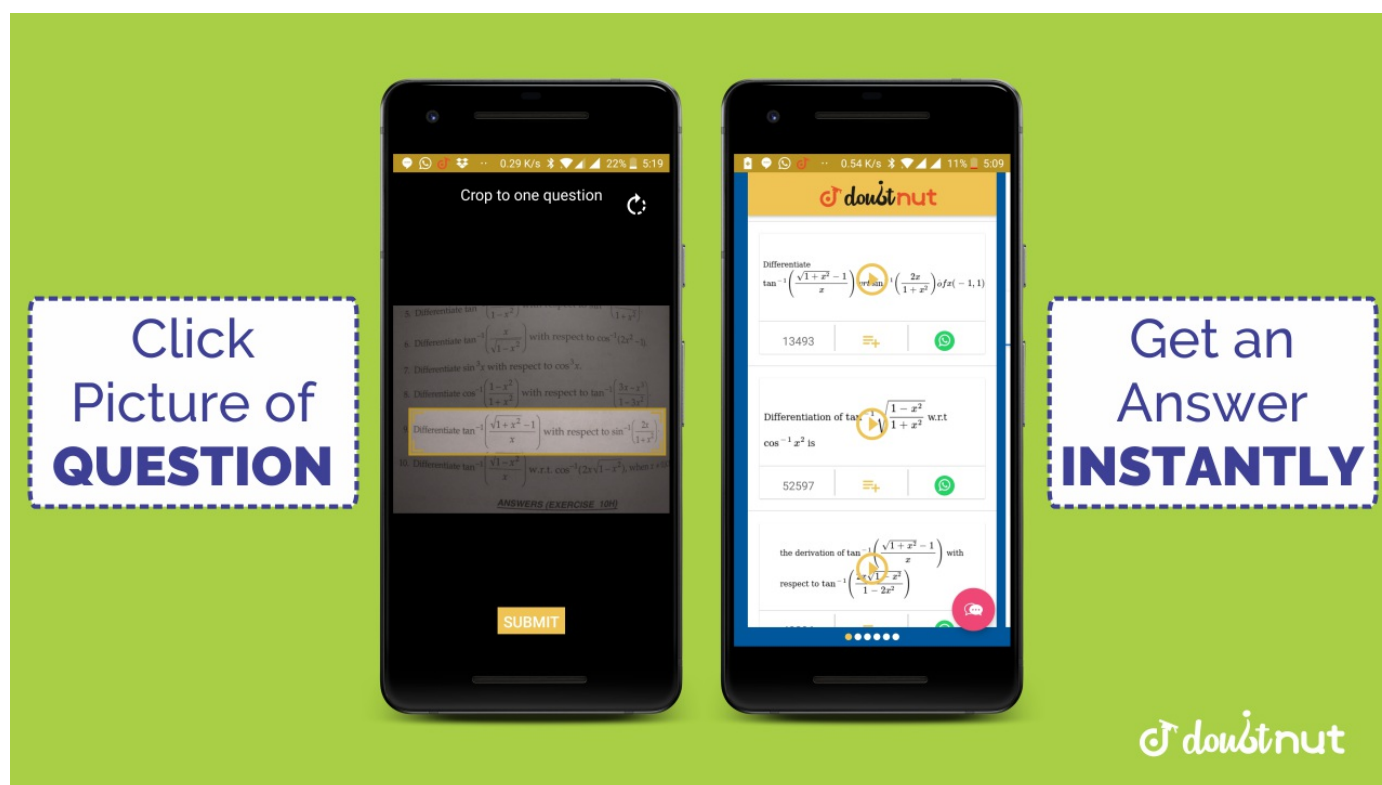
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11

NCERT - CLASS 11 - CHAPTER 15 STATISTICS - EXERCISE 15.1 - Q 11

Find the mean deviation about median for the following data : Marks 0-10
 10-20 20-30 30-40 40-50 50-60 Number of 6 8
 14 16 4 2 Girls

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12

NCERT - CLASS 11 - CHAPTER 15 STATISTICS - EXERCISE 15.1 - Q 12

Calculate the mean deviation about median age for the age distribution of 100 persons given below: Age 16-20 21-25 26-30 31-35 36-40 41-45 46-50 51-55 Number 5 6 12 14 26 12 16 9

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NCERT - CLASS 11 - CHAPTER 15 STATISTICS - EXERCISE 15.2 - Q 1

Find the mean and variance for each of the data :
 6, 7, 10, 12, 13,
 4, 8, 12

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NCERT - CLASS 11 - CHAPTER 15 STATISTICS - EXERCISE 15.2 - Q 2

Find the mean and variance for each of the data : First n natural numbers

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NCERT - CLASS 11 - CHAPTER 15 STATISTICS - EXERCISE 15.2 - Q 3

Find the mean and variance for each of the data : First 10 multiples of 3.

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16

NCERT - CLASS 11 - CHAPTER 15 STATISTICS - EXERCISE 15.2 - Q 4

Find the mean and variance for each of the data :

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NCERT - CLASS 11 - CHAPTER 15 STATISTICS - EXERCISE 15.2 - Q 5

Find the mean and variance for each of the data :

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18

NCERT - CLASS 11 - CHAPTER 15 STATISTICS - EXERCISE 15.2 - Q 6

Find the mean and standard deviation using short-cut method.

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NCERT - CLASS 11 - CHAPTER 15 STATISTICS - EXERCISE 15.2 - Q 7

Find the mean and variance for the following frequency distributions :

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20

NCERT - CLASS 11 - CHAPTER 15 STATISTICS - EXERCISE 15.2 - Q 8

Find the mean and variance for the following frequency distributions :

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21

NCERT - CLASS 11 - CHAPTER 15 STATISTICS - EXERCISE 15.2 - Q 9

Find the mean, variance and standard deviation using short-cut method

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NCERT - CLASS 11 - CHAPTER 15 STATISTICS - EXERCISE 15.2 - Q 10

The diameters of circle (in mm) drawn in a design are given below:

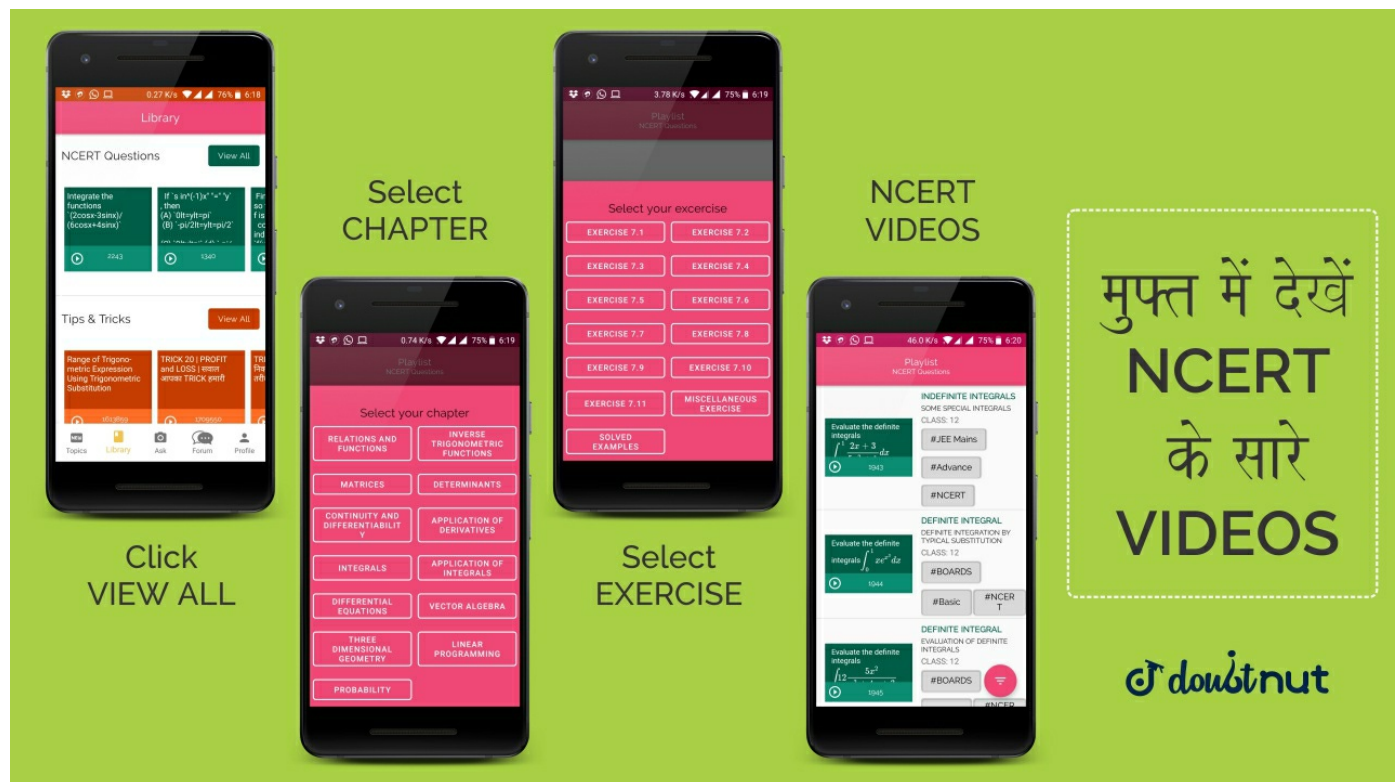
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23

NCERT - CLASS 11 - CHAPTER 15 STATISTICS - EXERCISE 15.3 - Q 1

For the data given below state which group is more variable, A or B?

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24

NCERT - CLASS 11 - CHAPTER 15 STATISTICS - EXERCISE 15.3 - Q 2

From the prices of shares X and Y below, find out which is more stable in value

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25

NCERT - CLASS 11 - CHAPTER 15 STATISTICS - EXERCISE 15.3 - Q 3

An analysis of monthly wages paid to workers in two firms A and B, belonging to the same industry, gives the following result

	Firm A	Firm B
No. of wage earners	100	121
Mean of monthly wages	Rs 5253	Rs 5253
Variance of the distribution	100	121

wages (i) Which firm A or B pays larger amount as monthly wages? (ii) Which firm, A or B, show greater variability in individual wages?

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NCERT - CLASS 11 - CHAPTER 15 STATISTICS - EXERCISE 15.3 - Q 4

26

The following is ht record of goals scored by team A in a football session For the team b, mean number of goals scored per match was 2 with a standard deviation 1.25 goals. Find which team may be considered more consistent?

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27

NCERT - CLASS 11 - CHAPTER 15 STATISTICS - EXERCISE 15.3 - Q 5

The sum and sum of squares corresponding to length x (in cm) and weight y (in gm) of 50 plant products are given below

$$\sum_{i=1}^{50} x_i = 212, \quad \sum_{i=1}^{50} x_i^2 = 902$$

$$.8, \quad \sum_{i=1}^{50} y_i = 261, \quad \sum_{i=1}^{50} y_i^2$$

$$= 1457.6$$

Which is more varyi

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28

NCERT - CLASS 11 - CHAPTER 15 STATISTICS - MISCELLANEOUS EXERCISE - Q 1

The mean and variance of eight observations are 9 and 9.25, respectively. If six of the observations are 6, 7, 10, 12, 12 and 13, find the remaining two observations.

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29

NCERT - CLASS 11 - CHAPTER 15 STATISTICS - MISCELLANEOUS EXERCISE - Q 2

The mean and variance of 7 observations are 8 and 16, respectively. If five of the observations are 2, 4, 10, 12, 14. Find the remaining two observations.

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Two sets A and B are as under A = {(a,b) ∈ R × R | (a-5)² + 1 and B = {(a,b) ∈ R × R | 4(a-6)² + 9(b-5)² ≤ 36}

Let S = {x ∈ R : x ≥ 0 and 2|sqrt(x)-3| + sqrt(x)(sqrt(x)-3) + 6 = 0} then S (1) is an empty set (2)

If a dis eqn the)+b

JEE Advanced [View All](#)

The area of the region bounded by the curves y = sqrt(1+sinx/cosx) and y = sqrt(1-sinx/cosx) bounded by

If P is a '3x3' matrix such that P^T = 2P+I, where P^T is the transpose of P and I is the '3x3'

Let the ter pro wh

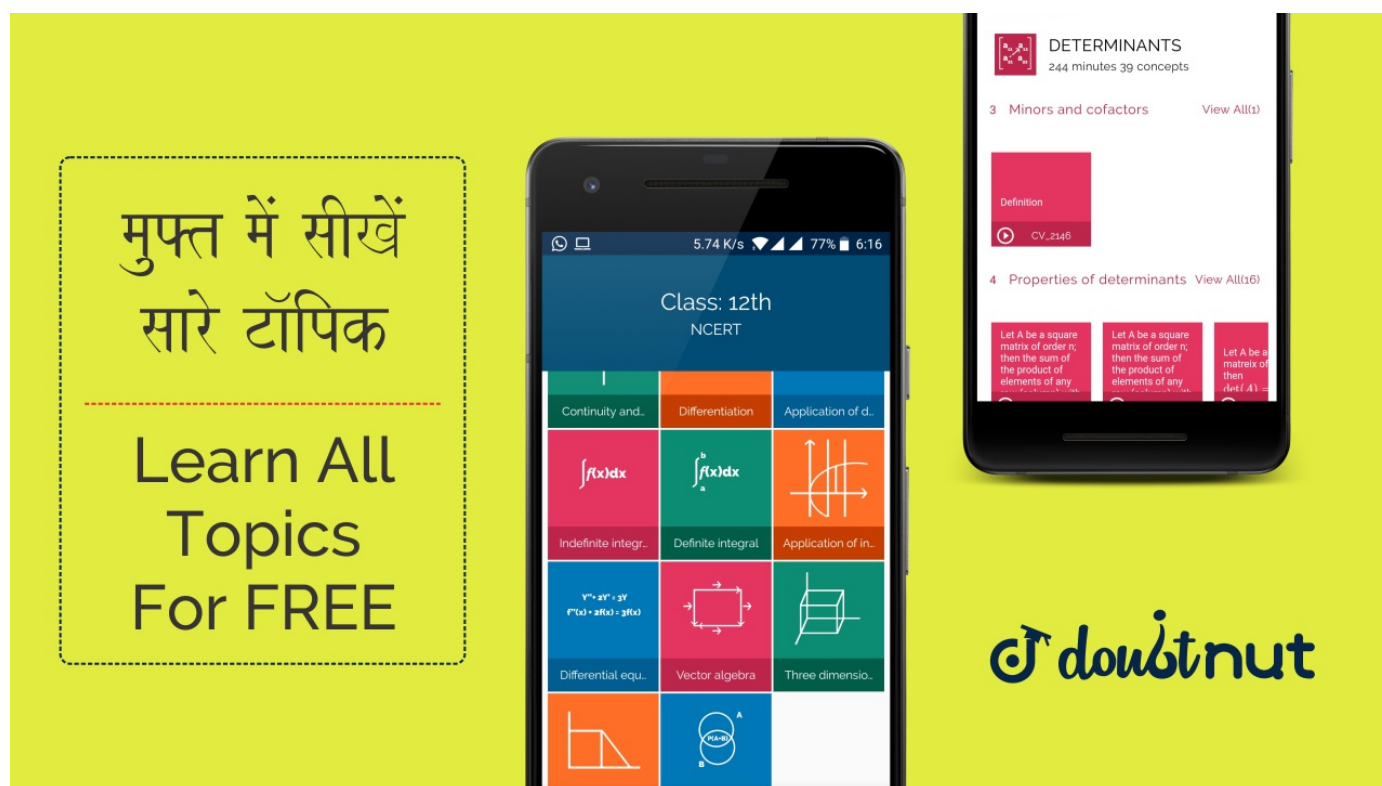
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30	<p>NCERT - CLASS 11 - CHAPTER 15 STATISTICS - MISCELLANEOUS EXERCISE - Q 3</p> <p>The mean and standard deviation of six observations are 8 and 4, respectively. If each observation is multiplied by 3, find the new mean and new standard deviation of the resulting observations.</p> <p>▶ Watch Free Video Solution on Doubtnut</p>												
31	<p>NCERT - CLASS 11 - CHAPTER 15 STATISTICS - MISCELLANEOUS EXERCISE - Q 4</p> <p>Given that \bar{x} is the mean and σ^2 is the variance of n observations x_1, x_2, \dots, x_n. Prove that the mean and variance of the observations $ax_1, ax_2, ax_3, \dots, ax_n$ are $a\bar{x}$ and $a^2\sigma^2$,</p> <p>▶ Watch Free Video Solution on Doubtnut</p>												
32	<p>NCERT - CLASS 11 - CHAPTER 15 STATISTICS - MISCELLANEOUS EXERCISE - Q 5</p> <p>The mean and standard deviation of 20 observations are found to be 10 and 2, respectively. One rechecking, it was found that an observation 8 was incorrect. Calculate the correct mean and standard deviation in each of the following cases. (i) If wrong item is omitted (ii) If it is replaced by 12.</p> <p>▶ Watch Free Video Solution on Doubtnut</p>												
33	<p>NCERT - CLASS 11 - CHAPTER 15 STATISTICS - MISCELLANEOUS EXERCISE - Q 6</p> <p>The mean and standard deviation of marks obtained by 50 students of a class in three subject, Mathematics, Physics and Chemistry are given below:</p> <table border="1" data-bbox="504 1662 2037 1929"> <thead> <tr> <th>Subject</th> <th>Mean</th> <th>Standard Deviation</th> </tr> </thead> <tbody> <tr> <td>Mathematics</td> <td>42</td> <td>15</td> </tr> <tr> <td>Physics</td> <td>32</td> <td>20</td> </tr> <tr> <td>Chemistry</td> <td>40.9</td> <td>12</td> </tr> </tbody> </table> <p>Which of the three subjects shows the highest variability in marks and which shows the lowest?</p> <p>▶ Watch Free Video Solution on Doubtnut</p>	Subject	Mean	Standard Deviation	Mathematics	42	15	Physics	32	20	Chemistry	40.9	12
Subject	Mean	Standard Deviation											
Mathematics	42	15											
Physics	32	20											
Chemistry	40.9	12											
34	<p>NCERT - CLASS 11 - CHAPTER 15 STATISTICS - MISCELLANEOUS EXERCISE - Q 7</p> <p>The mean and standard deviation of a group of 100 observations were found to be 20 and 3, respectively. Later on it was found that three observations were incorrect, which are recorded as 21, 21 and 18. Find the mean and standard deviation if the incorrect observations are omitted.</p> <p>▶ Watch Free Video Solution on Doubtnut</p>												
35	<p>NCERT - CLASS 11 - CHAPTER 15 STATISTICS - SOLVED EXAMPLES - Q 1</p> <p>Find the mean deviation about the mean for the following data: 6, 7, 10, 12, 13, 4, 8, 12</p>												

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36

NCERT - CLASS 11 - CHAPTER 15 STATISTICS - SOLVED EXAMPLES - Q 3

Find the mean deviation about the median for the following data:

3, 9, 5, 3, 12,
10, 18, 4, 7, 19,
21

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37

NCERT - CLASS 11 - CHAPTER 15 STATISTICS - SOLVED EXAMPLES - Q 4

Find mean deviation about the mean for the following data : x_i 2 5 6 8 10 12 f_i 2 8 10 7 8 5

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38

NCERT - CLASS 11 - CHAPTER 15 STATISTICS - SOLVED EXAMPLES - Q 5

Find the mean deviation about the median for the following data:

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39

NCERT - CLASS 11 - CHAPTER 15 STATISTICS - SOLVED EXAMPLES - Q 6

Find the mean deviation about the mean for the following data.

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40

NCERT - CLASS 11 - CHAPTER 15 STATISTICS - SOLVED EXAMPLES - Q 7

Calculate the mean deviation about median for the following data :

41

NCERT - CLASS 11 - CHAPTER 15 STATISTICS - SOLVED EXAMPLES - Q 8

Find the Variance of the following data:

6, 8, 10, 12, 14,
16, 18, 20, 22,
24

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42

NCERT - CLASS 11 - CHAPTER 15 STATISTICS - SOLVED EXAMPLES - Q 9

Find the variance and standard deviation for the following data:

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NCERT - CLASS 11 - CHAPTER 15 STATISTICS - SOLVED EXAMPLES - Q 10

Calculate the mean, variance and standard deviation for the following distribution:

Class	30-40	40-50	50-60	60-70	70-80	80-90	90-100	Frequency
	3	7	12	15	8	3	2	

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44

Find the standard deviation for the following data :

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45

Calculate mean, Variance and Standard Deviation for the following distribution.

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NCERT - CLASS 11 - CHAPTER 15 STATISTICS - SOLVED EXAMPLES - Q 13

46

Two plants A and B of a factory show following results about the number of workers and the wages paid to them.

		A	
B No. of workers		5000	6000
wages	Rs 2500	Rs 2500	Average monthly
81	100	of wages	Variance of distribution

In which plant, A or B is there greater variability in individual wages?

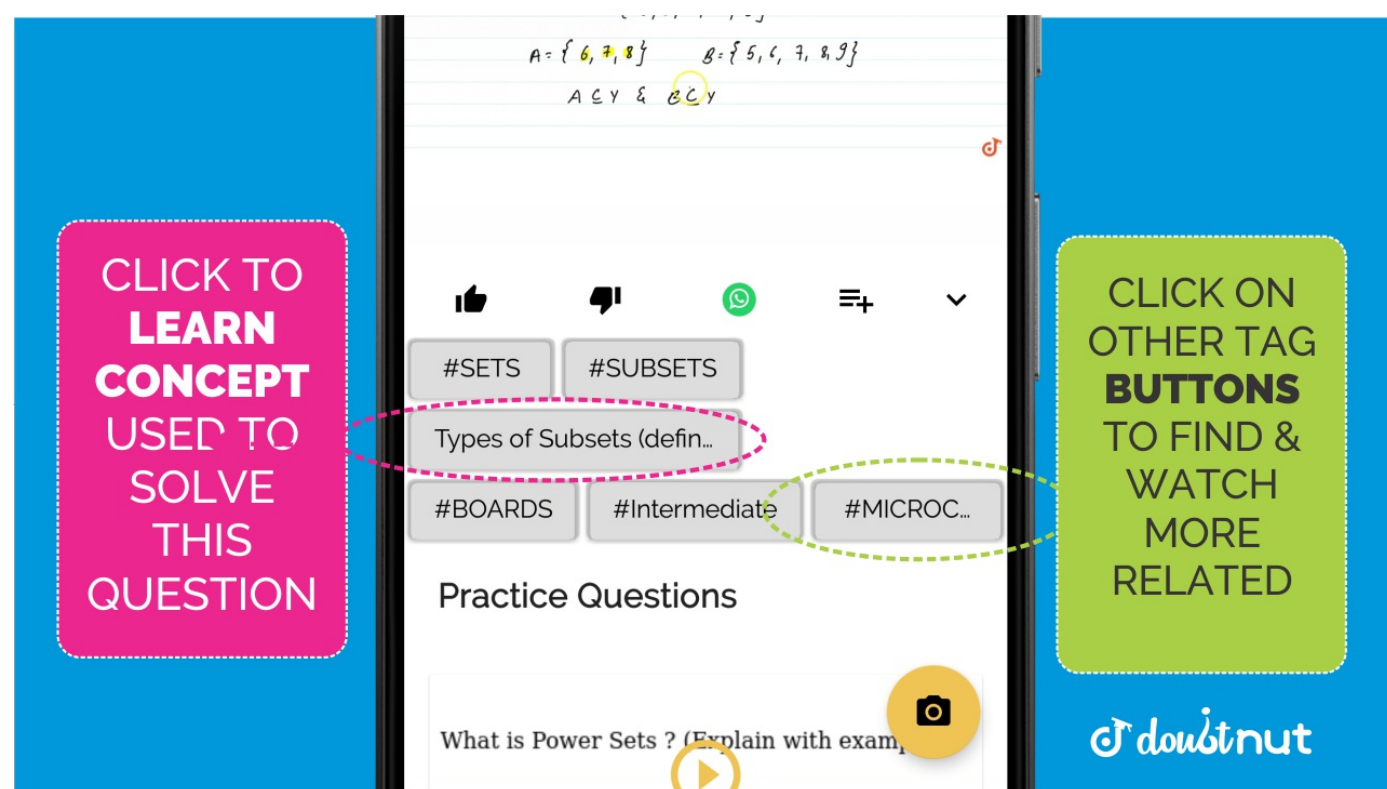
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NCERT - CLASS 11 - CHAPTER 15 STATISTICS - SOLVED EXAMPLES - Q 14

47

Coefficient of variation of two distributions are 60 and 70, and their standard deviations are 21 and 16, respectively. What are their arithmetic means.

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NCERT - CLASS 11 - CHAPTER 15 STATISTICS - SOLVED EXAMPLES - Q 15

48

The following values are calculated in respect of heights and weights of the students of a section of Class XI: Height Mean 162.6 cm Weight Mean 52.36 kg Variance 127.69 cm^2 23.1361 kg^2 Can we say that the weights show greater variation than the

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NCERT - CLASS 11 - CHAPTER 15 STATISTICS - SOLVED EXAMPLES - Q 16

49

The variance of 20 observations is 5. If each observation is multiplied by 2, find the new variance of the resulting observations.

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NCERT - CLASS 11 - CHAPTER 15 STATISTICS - SOLVED EXAMPLES - Q 17

50

The mean of 5 observations is 4.4 and their variance is 8.24. If three of the observations are 1, 2 and 6, find the other two observations.

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NCERT - CLASS 11 - CHAPTER 15 STATISTICS - SOLVED EXAMPLES - Q 18

51

If each of the observation x_1, x_2, \dots, x_n is increased by a where a is a negative or positive number, show that the variance remains unchanged.

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NCERT - CLASS 11 - CHAPTER 15 STATISTICS - SOLVED EXAMPLES - Q 19

52

The mean and standard deviation of 100 observations were calculated as 40 and 5.1, respectively by a student who took by mistake 50 instead of 40 for one observation. What are the correct mean and standard deviation?

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