EduSahara™ Learning Center Assignment

Grade : Class VII, ICSE
Chapter : Statistics
Name : Random Samples Metrics
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The scores obtained by 12 students in a test are

1. 8 , 4 , 13 , 9 , 6 , 5 , 14 , 12 , 6 , 14 , 10 , 20

Find the range.

(i) 16 (ii) $10\frac{1}{12}$ (iii) $9\frac{1}{2}$ (iv) 4 (v) 20

The scores obtained by 6 students in a test are

2. 13 , 17 , 13 , 15 , 9 , 20

Find the minimum score.

(i) 11 (ii) 20 (iii) 9 (iv) 14 (v) $14\frac{1}{2}$

The scores obtained by 7 students in a test are

3. 19 , 17 , 13 , 1 , 15 , 15 , 4

Find the maximum score.

(i) 15 (ii) 1 (iii) 12 (iv) 19 (v) 18

The scores obtained by 7 students in a test are

4. 15 , 5 , 19 , 1 , 17 , 3 , 7

Find the mean score.

(i) 19 (ii) 18 (iii) 1 (iv) 7 (v) $9\frac{4}{7}$

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5. If the mean of 3 , 9 , 8 , x , 5 , 7 is $5\frac{1}{2}$, find the value of x.

(i) 1 (ii) 4 (iii) 2 (iv) -1 (v) 0

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6. Find the mean of all prime numbers between 10 and 90 .

(i) $\frac{473}{10}$ (ii) $\frac{189}{4}$ (iii) $\frac{471}{10}$ (iv) $\frac{95}{2}$ (v) $\frac{379}{8}$

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7. Find the mean of first 8 multiples of 10 .

(i) 42 (ii) 44 (iii) 45 (iv) 46 (v) 48

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8. Find the mean of first 10 whole numbers.

(i) $\frac{7}{2}$ (ii) $\frac{9}{2}$ (iii) 5 (iv) $\frac{17}{4}$ (v) $\frac{11}{2}$

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9. Find the mean of first 6 multiples of 10 .

(i) 32 (ii) 38 (iii) 35 (iv) 36 (v) 34

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10. Find the mean of the first 15 odd numbers.

(i) 12 (ii) 15 (iii) 18 (iv) 14 (v) 16

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11. Find the mean of the first 10 even numbers.

(i) 10 (ii) 12 (iii) 11 (iv) 13 (v) 8

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12. The marks obtained by 15 students in a test are given below.
Find their mean marks.

8 , 48 , 8 , 34 , 1 , 44 , 42 , 8 , 24 , 32 , 38 , 7 , 47 , 32 , 42

(i) $\frac{83}{3}$ (ii) 27 (iii) $\frac{137}{5}$ (iv) $\frac{85}{3}$ (v) 29

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13. The marks obtained by 14 students in a test are given below.
Find the mean of their marks when the marks of each student is increased by 2 .

15 , 30 , 39 , 30 , 49 , 5 , 37 , 27 , 10 , 40 , 40 , 20 , 17 , 23

(i) $\frac{207}{7}$ (ii) $\frac{263}{9}$ (iii) $\frac{205}{7}$ (iv) 29 (v) $\frac{147}{5}$

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14. The marks obtained by 14 students in a test are given below.
Find the mean of their marks when the marks of each student is decreased by 3 .

11 , 42 , 31 , 33 , 17 , 23 , 33 , 42 , 3 , 2 , 18 , 7 , 17 , 35

(i) $\frac{134}{7}$ (ii) $\frac{138}{7}$ (iii) $\frac{98}{5}$ (iv) $\frac{136}{7}$ (v) $\frac{58}{3}$

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15. The marks obtained by 13 students in a test are given below.
Find the mean of their marks when the marks of each student is doubled.

46 , 22 , 18 , 6 , 32 , 30 , 31 , 4 , 10 , 30 , 24 , 18 , 49

(i) $\frac{542}{11}$ (ii) $\frac{638}{13}$ (iii) $\frac{246}{5}$ (iv) $\frac{642}{13}$ (v) $\frac{640}{13}$

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16. Heights of 10 students (in cm) are given below. Find the mean height.

164 , 148 , 126 , 134 , 146 , 169 , 175 , 152 , 167 , 158

(i) $\frac{1539}{10}$ cm (ii) 154 cm (iii) $\frac{1549}{10}$ cm (iv) $\frac{1559}{10}$ cm (v) $\frac{1541}{10}$ cm

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17. Heights of 15 plants (in cm) are given below. Find the mean height.

71 , 72 , 87 , 100 , 94 , 97 , 76 , 97 , 93 , 70 , 62 , 60 , 100 , 87 , 56

(i) $\frac{1222}{15}$ cm (ii) $\frac{1252}{15}$ cm (iii) $\frac{1237}{15}$ cm (iv) $\frac{408}{5}$ cm (v) $\frac{1223}{15}$ cm

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18. Ages of 10 students (in years) are given below. Find the mean age.

10 , 13 , 12 , 13 , 15 , 15 , 14 , 14 , 11 , 15

(i) $\frac{67}{5}$ years (ii) $\frac{71}{5}$ years (iii) $\frac{66}{5}$ years (iv) $\frac{76}{5}$ years (v) $\frac{68}{5}$ years

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19. Rainfall of 11 days (in mm) are given below. Find the mean rainfall.

7 , 5 , 5 , 15 , 7 , 7 , 8 , 14 , 6 , 9 , 14

(i) 9 mm (ii) $\frac{97}{11}$ mm (iii) $\frac{98}{11}$ mm (iv) $\frac{108}{11}$ mm (v) $\frac{119}{11}$ mm

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20. Scores of 14 students are given below. Find the mean score.

76 , 86 , 75 , 80 , 71 , 78 , 80 , 85 , 84 , 87 , 82 , 84 , 90 , 88

(i) $\frac{573}{7}$ (ii) 82 (iii) $\frac{580}{7}$ (iv) $\frac{587}{7}$ (v) $\frac{575}{7}$

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21. Temperatures of 11 days (in °C) are given below. Find the mean temperature.

27 , 25 , 25 , 32 , 30 , 31 , 31 , 27 , 25 , 32 , 27

(i) $\frac{323}{11}$ °C (ii) $\frac{314}{11}$ °C (iii) $\frac{312}{11}$ °C (iv) $\frac{313}{11}$ °C (v) $\frac{334}{11}$ °C

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22. Weights of 10 students (in kg) are given below. Find the mean weight.

57 , 58 , 49 , 47 , 50 , 52 , 50 , 52 , 47 , 43

(i) $\frac{103}{2}$ kg (ii) $\frac{105}{2}$ kg (iii) 51 kg (iv) $\frac{101}{2}$ kg

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23. Daily wages of 14 labourers (in ₹) are given below. Find the mean wage.

420 , 403 , 327 , 367 , 331 , 449 , 459 , 444 , 406 , 425 , 494 , 335 , 399 , 456

(i) ₹ 409.21 (ii) ₹ 408.21 (iii) ₹ 410.21 (iv) ₹ 408.36 (v) ₹ 408.29

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24. The mean of the below random sample is $30\frac{7}{10}$. Find the missing quantity.

x , 22 , 42 , 43 , 49 , 29 , 27 , 40 , 15 , 28

(i) 14 (ii) 13 (iii) 10 (iv) 12 (v) 11

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25. Given the mean of 11 samples as $9\frac{6}{11}$,
what is the mean if a sample value is increased by 12 ?

(i) $\frac{119}{11}$ (ii) $\frac{117}{11}$ (iii) $\frac{97}{9}$ (iv) $\frac{137}{13}$ (v) $\frac{115}{11}$

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26. Given the mean of 6 samples as 14 ,
what is the mean if a sample value is decreased by 10 ?

(i) $\frac{37}{3}$ (ii) $\frac{35}{3}$ (iii) $\frac{61}{5}$ (iv) 13

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27. Given the mean of 10 samples as 7 ,
what is the new mean if two samples 1 and 10 are added ?

(i) $\frac{13}{2}$ (ii) $\frac{29}{4}$ (iii) $\frac{15}{2}$ (iv) $\frac{27}{4}$ (v) $\frac{25}{4}$

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28. Given the mean of 12 samples as $4\frac{5}{12}$,
what is the new mean if two samples 8 and 9 are removed ?

(i) $\frac{24}{7}$ (ii) $\frac{16}{5}$ (iii) 4 (iv) $\frac{18}{5}$

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29. Find the mean of all prime numbers between 50 and 100 .

(i) $\frac{220}{3}$ (ii) $\frac{366}{5}$ (iii) $\frac{364}{5}$ (iv) $\frac{368}{5}$ (v) $\frac{512}{7}$

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30. Find the mean of all prime numbers between 10 and 90 .

(i) $\frac{471}{10}$ (ii) $\frac{189}{4}$ (iii) $\frac{473}{10}$ (iv) $\frac{379}{8}$ (v) $\frac{95}{2}$

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31. Heights of 14 plants (in cm) are given below. Find the mean height.

54 , 60 , 70 , 54 , 60 , 78 , 89 , 52 , 56 , 76 , 72 , 62 , 59 , 64

(i) 65 cm (ii) $\frac{454}{7}$ cm (iii) $\frac{453}{7}$ cm (iv) $\frac{467}{7}$ cm (v) $\frac{460}{7}$ cm

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Assignment Key

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2) (iii)
3) (iv)
4) (v)
5) (i)
6) (i)
7) (iii)
8) (ii)
9) (iii)
10) (ii)
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16) (i)
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19) (ii)
20) (i)
21) (iii)
22) (iv)
23) (ii)
24) (iv)
25) (ii)
26) (i)
27) (iv)
28) (iv)
29) (ii)
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