EduSahara™ Assignment

Name : Random Samples Metrics

Chapter : Statistics

Grade : ICSE Grade VII

License : Non Commercial Use

1. The scores obtained by 8 students in a test are given below. Find the range. 1 10 5 8 1 6 11 9

   (i) 1 (ii) 11 (iii) 10 (iv) $6\frac{3}{8}$ (v) 7

2. The scores obtained by 14 students in a test are given below. Find the minimum score.
   10 1 13 7 11 7 8 3 10 4 13 4 5 2

   (i) 12 (ii) 1 (iii) 13 (iv) 4 (v) 7

3. The scores obtained by 12 students in a test are given below. Find the maximum score.
   6 17 4 15 2 18 16 15 14 17 15 7

   (i) $12\frac{1}{6}$ (ii) 15 (iii) 2 (iv) 18 (v) 16

4. The scores obtained by 11 students in a test are given below. Find the mean score.
   11 7 1 8 18 5 16 12 18 4 2

   (i) 1 (ii) 18 (iii) 17 (iv) 8 (v) $9\frac{3}{11}$

5. If the mean of 6 8 x 9 2 is 6 , find the value of x.

   (i) 5 (ii) 3 (iii) 7 (iv) 4 (v) 6

6. Find the mean of all prime numbers between 30 and 100.

   (i) $\frac{931}{15}$ (ii) $\frac{929}{15}$ (iii) $\frac{311}{5}$ (iv) $\frac{807}{13}$ (v) $\frac{1055}{17}$

7. Find the mean of first 9 multiples of 2.

   (i) 9 (ii) 11 (iii) 10 (iv) 12 (v) 7

8. Find the mean of first 6 whole numbers.

   (i) $\frac{9}{4}$ (ii) $\frac{3}{2}$ (iii) $\frac{5}{2}$ (iv) $\frac{7}{2}$ (v) 3

9. Find the mean of first 5 multiples of 12.

   (i) 36 (ii) 39 (iii) 35 (iv) 34 (v) 37

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

    (i) 13 (ii) 8 (iii) 11 (iv) 10 (v) 9

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

    (i) 12 (ii) 8 (iii) 11 (iv) 10 (v) 14

12. The marks obtained by 11 students in a test are given below. Find their mean marks.
43 14 13 33 12 50 26 31 3 31 14

(i) $\frac{270}{11}$ (ii) $\frac{318}{13}$ (iii) $\frac{74}{3}$ (iv) $\frac{272}{11}$ (v) $\frac{268}{11}$

13. The marks obtained by 12 students in a test are given below. Find the mean of their marks when the marks of each student is increased by 8.
46 25 42 27 1 16 4 20 33 8 14 13

(i) $\frac{115}{4}$ (ii) $\frac{59}{2}$ (iii) $\frac{57}{2}$ (iv) $\frac{113}{4}$ (v) $\frac{117}{4}$

14. The marks obtained by 12 students in a test are given below. Find the mean of their marks when the marks of each student is decreased by 7.
39 32 6 27 30 29 12 47 8 31 32 4

(i) $\frac{37}{2}$ (ii) $\frac{73}{4}$ (iii) $\frac{35}{2}$ (iv) $\frac{69}{4}$ (v) $\frac{71}{4}$

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.
35 16 50 42 10 10 11 3 36 30 34 44 3

(i) $\frac{648}{13}$ (ii) $\frac{646}{13}$ (iii) $\frac{746}{15}$ (iv) 50

16. Heights of 15 students (in cm) are given below. Find the mean height.
142 140 150 154 165 162 138 137 145 150 126 146 134 162 129

(i) $\frac{437}{3}$ cm (ii) $\frac{436}{3}$ cm (iii) $\frac{442}{3}$ cm (iv) 146 cm (v) $\frac{439}{3}$ cm

17. Heights of 11 plants (in cm) are given below. Find the mean height.
83 72 95 59 98 99 67 72 52 62 97

(i) 78 cm (ii) $\frac{867}{11}$ cm (iii) $\frac{856}{11}$ cm (iv) $\frac{857}{11}$ cm (v) $\frac{878}{11}$ cm

18. Ages of 10 students (in years) are given below. Find the mean age.
12 11 10 13 15 14 11 11 12 13

(i) $\frac{63}{5}$ years (ii) $\frac{61}{5}$ years (iii) $\frac{71}{5}$ years (iv) $\frac{66}{5}$ years (v) $\frac{62}{5}$ years

19. Rainfall of 14 days (in mm) are given below. Find the mean rainfall.
6 13 10 6 5 6 5 5 6 5 13 9 8 7

(i) $\frac{66}{7}$ mm (ii) $\frac{52}{7}$ mm (iii) $\frac{59}{7}$ mm (iv) $\frac{53}{7}$ mm (v) $\frac{54}{7}$ mm

20. Scores of 13 students are given below. Find the mean score.
77 88 78 80 75 76 79 78 77 71 72 80 77

(i) $\frac{1008}{13}$ (ii) $\frac{1034}{13}$ (iii) $\frac{1010}{13}$ (iv) $\frac{1009}{13}$ (v) $\frac{1021}{13}$

21. Temperatures of 15 days (in °C) are given below. Find the mean temperature.
34 29 35 33 33 28 28 26 26 25 32 34 30 30 32

(i) $\frac{97}{3}$ °C (ii) $\frac{91}{3}$ °C (iii) $\frac{92}{3}$ °C (iv) $\frac{94}{3}$ °C (v) 31 °C

22. Weights of 12 students (in kg) are given below. Find the mean weight.
58 49 42 42 59 57 45 53 57 41 44 60

(i) $\frac{619}{12}$ kg (ii) $\frac{203}{4}$ kg (iii) $\frac{607}{12}$ kg (iv) $\frac{152}{3}$ kg (v) $\frac{631}{12}$ kg

23. Daily wages of 13 labourers (in ₹) are given below. Find the mean wage.
357 433 385 436 475 380 303 413 484 440 414 493 489

(i) ₹424.23 (ii) ₹423.38 (iii) ₹423.31 (iv) ₹425.23 (v) ₹423.23

24. The mean of the below random sample is $28\frac{1}{10}$. Find the missing quantity.

34 45 x 29 15 47 26 10 27 23

(i) 24 (ii) 25 (iii) 26 (iv) 28 (v) 23

25. Given the mean of 15 samples as $10\frac{14}{15}$, what is the mean if a sample value is increased by 19 ?

(i) $\frac{59}{5}$ (ii) $\frac{61}{5}$ (iii) $\frac{37}{3}$ (iv) $\frac{63}{5}$ (v) $\frac{85}{7}$

26. Given the mean of 14 samples as $9\frac{1}{2}$, what is the mean if a sample value is decreased by 17 ?

(i) $\frac{42}{5}$ (ii) 8 (iii) $\frac{60}{7}$ (iv) $\frac{74}{9}$ (v) $\frac{58}{7}$

27. Given the mean of 10 samples as $6\frac{4}{5}$,
what is the new mean if two samples 1 and 2 are added ?

(i) $\frac{61}{10}$ (ii) $\frac{23}{4}$ (iii) $\frac{81}{14}$ (iv) $\frac{71}{12}$ (v) $\frac{73}{12}$

28. Given the mean of 12 samples as $6\frac{1}{6}$,
what is the new mean if two samples 7 and 8 are removed ?

(i) $\frac{23}{4}$ (ii) $\frac{57}{10}$ (iii) $\frac{61}{10}$ (iv) $\frac{59}{10}$ (v) $\frac{49}{8}$

29. Find the mean of all prime numbers between 30 and 60.

(i) $\frac{311}{7}$ (ii) $\frac{133}{3}$ (iii) $\frac{313}{7}$ (iv) $\frac{309}{7}$ (v) $\frac{223}{5}$

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

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

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

89 54 54 80 99 59 84 73 98 72 99 69 51 67 50

(i) $\frac{371}{5}$ cm (ii) $\frac{367}{5}$ cm (iii) $\frac{376}{5}$ cm (iv) $\frac{366}{5}$ cm (v) $\frac{368}{5}$ cm

Assignment Key

1) (iii)	2) (ii)	3) (iv)	4) (v)	5) (i)	6) (i)
7) (iii)	8) (iii)	9) (i)	10) (iv)	11) (iii)	12) (i)
13) (i)	14) (v)	15) (i)	16) (ii)	17) (iii)	18) (ii)
19) (ii)	20) (i)	21) (ii)	22) (iii)	23) (v)	24) (ii)
25) (ii)	26) (v)	27) (iv)	28) (iv)	29) (i)	30) (iii)
31) (iv)					

Copyright © Small Systems Computing Pvt. Ltd.