EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Average

Grade : ICSE Grade VII

1. Given the mean of 10 samples as $6\frac{1}{10}$,
what is the new mean if two samples 1 and 8 are added ?

(i) $\frac{35}{6}$ (ii) $\frac{25}{4}$ (iii) $\frac{45}{8}$ (iv) $\frac{37}{6}$ (v) $\frac{11}{2}$

2. The arithmetic mean of 12 41 3 15 8 3 is

(i) 12.67 (ii) 14.67 (iii) 11.67 (iv) 13.67 (v) 15.67

3. Find the mean of all prime numbers between 40 and 100.

(i) $\frac{865}{13}$ (ii) $\frac{863}{13}$ (iii) $\frac{199}{3}$ (iv) $\frac{861}{13}$ (v) $\frac{731}{11}$

4. Find the mean of the first 15 even numbers.

(i) 17 (ii) 14 (iii) 15 (iv) 16 (v) 18

5. The mean of 10 numbers is $13\frac{3}{10}$. Upon excluding one number, the mean becomes $13\frac{1}{3}$. Find the excluded number.

(i) 16 (ii) 14 (iii) 10 (iv) 13 (v) 12

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

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

7. Temperatures of 20 days are given below. Find the mean.

Temperature (in degree C)	25	26	27	30	32	34	35
No. of days	1	2	5	3	2	6	1

(i) $\frac{123}{4}$ °C (ii) $\frac{125}{4}$ °C (iii) $\frac{129}{4}$ °C (iv) $\frac{121}{4}$ °C (v) $\frac{61}{2}$ °C

8. Given the mean of 12 samples as $5\frac{3}{4}$,
what is the new mean if two samples 3 and 3 are removed ?

(i) $\frac{61}{10}$ (ii) $\frac{63}{10}$ (iii) $\frac{51}{8}$ (iv) $\frac{13}{2}$ (v) $\frac{25}{4}$

9. Given the mean of 14 samples as 12, what is the mean if a sample value is decreased by 14 ?

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

10. Given the mean of 10 samples as $5\frac{1}{10}$,
what is the new mean if two samples 10 and 2 are added ?
(i) $\frac{23}{4}$ (ii) $\frac{21}{4}$ (iii) $\frac{11}{2}$ (iv) $\frac{19}{4}$ (v) $\frac{31}{6}$

11. The mean of 8 numbers is $8\frac{5}{8}$. Upon excluding one number, the mean becomes $9\frac{4}{7}$. Find the excluded number.
(i) 4 (ii) 0 (iii) 2 (iv) 1 (v) 3

12. Find the mean of the first 10 even numbers.
(i) 14 (ii) 11 (iii) 9 (iv) 10 (v) 12

13. The arithmetic mean of 6 18 39 21 12 46 26 18 is
(i) 22.25 (ii) 25.25 (iii) 24.25 (iv) 21.25 (v) 23.25

14. If the mean of 6 samples is $27\frac{1}{2}$,
what is the new mean if 7 is added to each number.
(i) 35 (ii) $\frac{71}{2}$ (iii) $\frac{67}{2}$ (iv) $\frac{137}{4}$ (v) $\frac{69}{2}$

15. If the mean of 8 samples is $22\frac{1}{8}$,
what is the new mean if 8 is subtracted from each number.
(i) $\frac{113}{8}$ (ii) $\frac{115}{8}$ (iii) $\frac{111}{8}$ (iv) $\frac{85}{6}$ (v) $\frac{141}{10}$

16. Find the mean of first 8 multiples of 4.
(i) 19 (ii) 17 (iii) 20 (iv) 16 (v) 18

17. Find the mean of first 9 multiples of 5.
(i) 25 (ii) 26 (iii) 23 (iv) 24 (v) 27

18. If the mean of 5 samples is 20,
what is the new mean if each number is multiplied by 3.
(i) 63 (ii) 58 (iii) 60 (iv) 59 (v) 61

19. Find the mean of all prime numbers between 50 and 90.
(i) $\frac{637}{9}$ (ii) $\frac{495}{7}$ (iii) $\frac{635}{9}$ (iv) $\frac{211}{3}$ (v) $\frac{775}{11}$

20. Given the mean of 12 samples as $4\frac{5}{6}$,
what is the new mean if two samples 3 and 2 are removed ?
(i) $\frac{53}{10}$ (ii) $\frac{11}{2}$ (iii) $\frac{21}{4}$ (iv) $\frac{51}{10}$ (v) $\frac{43}{8}$

21. The mean of 6 numbers is 13 . Upon adding one number, the mean becomes $13\frac{1}{7}$. Find the included number.

(i) 14 (ii) 15 (iii) 13 (iv) 17 (v) 11

22. If the mean of 6 samples is $23\frac{2}{3}$,

what is the new mean if 9 is added to each number.

(i) $\frac{100}{3}$ (ii) 34 (iii) $\frac{98}{3}$ (iv) $\frac{162}{5}$ (v) 32

23. Given the mean of 13 samples as $9\frac{2}{13}$, what is the mean if a sample value is increased by 10 ?

(i) $\frac{111}{11}$ (ii) $\frac{127}{13}$ (iii) $\frac{129}{13}$ (iv) $\frac{131}{13}$ (v) $\frac{49}{5}$

24. Temperatures of 25 days are given below. Find the mean.

Temperature (in degree C)	25	26	27	28	29	30	32	33	34	35
No. of days	3	4	5	2	2	1	2	2	2	2

(i) $\frac{727}{25}$ °C (ii) $\frac{776}{25}$ °C (iii) $\frac{751}{25}$ °C (iv) $\frac{728}{25}$ °C (v) $\frac{726}{25}$ °C

25. Find the mean of first 10 whole numbers.

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

Assignment Key

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