EduSahara™ Learning Center Assignment

Grade   : Class VII, SSC
Chapter   : Data Handling
Name   : Arithmetic Mean
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The scores obtained by 11 students in a test are

1. 6 , 18 , 1 , 11 , 4 , 7 , 1 , 19 , 20 , 7 , 7

Find the mean score.

(i) 19 (ii) $9\frac{2}{11}$ (iii) 7 (iv) 1 (v) 20

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2. Find the mean of all prime numbers between 20 and 60 .

(i) $\frac{119}{3}$ (ii) $\frac{121}{3}$ (iii) 41 (iv) $\frac{201}{5}$

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3. Find the mean of all prime numbers between 50 and 60 .

(i) 57 (ii) 55 (iii) 56 (iv) 53 (v) 58

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4. Find the mean of first 10 multiples of 17 .

(i) $\frac{187}{2}$ (ii) $\frac{185}{2}$ (iii) $\frac{189}{2}$ (iv) 94 (v) $\frac{373}{4}$

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5. Find the mean of first 10 whole numbers.

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

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6. Find the mean of first 6 multiples of 12 .

(i) 42 (ii) 41 (iii) 43 (iv) 45 (v) 40

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7. Find the mean of the first 20 odd numbers.

(i) 20 (ii) 23 (iii) 17 (iv) 21 (v) 19

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

(i) 16 (ii) 17 (iii) 19 (iv) 15 (v) 14

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9. The marks obtained by 14 students in a test are given below. Find their mean marks.

37 , 44 , 33 , 30 , 26 , 39 , 23 , 31 , 7 , 34 , 8 , 35 , 47 , 40

(i) 31 (ii) 28 (iii) 33 (iv) 30 (v) 32

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10. 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 increased by 7 .

28 , 39 , 34 , 26 , 1 , 27 , 44 , 36 , 43 , 6 , 15 , 23 , 39

(i) $\dfrac{454}{13}$ (ii) $\dfrac{104}{3}$ (iii) $\dfrac{452}{13}$ (iv) $\dfrac{384}{11}$ (v) $\dfrac{450}{13}$

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11. 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 4 .

9 , 8 , 23 , 23 , 39 , 29 , 24 , 5 , 50 , 31 , 17 , 21 , 7 , 30

(i) $\dfrac{130}{7}$ (ii) $\dfrac{132}{7}$ (iii) $\dfrac{128}{7}$ (iv) $\dfrac{94}{5}$ (v) $\dfrac{166}{9}$

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

10 , 47 , 38 , 31 , 3 , 11 , 45 , 15 , 25 , 34 , 26 , 6 , 27 , 23 , 5

(i) $\dfrac{692}{15}$ (ii) 46 (iii) $\dfrac{694}{15}$ (iv) $\dfrac{784}{17}$ (v) $\dfrac{600}{13}$

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

158 , 150 , 132 , 172 , 151 , 149 , 149 , 169 , 141 , 143

(i) $\dfrac{757}{5}$ cm (ii) $\dfrac{762}{5}$ cm (iii) $\dfrac{759}{5}$ cm (iv) $\dfrac{767}{5}$ cm (v) $\dfrac{758}{5}$ cm

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

55 , 85 , 57 , 64 , 57 , 96 , 73 , 80 , 77 , 90 , 79 , 73 , 61 , 91

(i) $\dfrac{519}{7}$ cm (ii) $\dfrac{533}{7}$ cm (iii) $\dfrac{520}{7}$ cm (iv) $\dfrac{521}{7}$ cm (v) $\dfrac{526}{7}$ cm

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15. Ages of 13 students (in years) are given below. Find the mean age.

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

(i) $\frac{173}{13}$ years (ii) $\frac{162}{13}$ years (iii) $\frac{160}{13}$ years (iv) $\frac{161}{13}$ years (v) $\frac{186}{13}$ years

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16. Rainfall of 13 days (in mm) are given below. Find the mean rainfall.

14 , 9 , 11 , 14 , 8 , 15 , 8 , 9 , 6 , 6 , 11 , 10 , 15

(i) $\frac{149}{13}$ mm (ii) $\frac{138}{13}$ mm (iii) $\frac{136}{13}$ mm (iv) $\frac{162}{13}$ mm (v) $\frac{137}{13}$ mm

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17. Scores of 13 students are given below. Find the mean score.

78 , 80 , 90 , 80 , 90 , 85 , 90 , 84 , 70 , 89 , 83 , 80 , 79

(i) $\frac{1078}{13}$ (ii) $\frac{1091}{13}$ (iii) $\frac{1104}{13}$ (iv) 83 (v) $\frac{1080}{13}$

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18. Temperatures of 14 days (in °C) are given below. Find the mean temperature.

32 , 26 , 34 , 29 , 32 , 32 , 32 , 34 , 29 , 26 , 30 , 29 , 34 , 35

(i) 30 °C (ii) 32 °C (iii) 29 °C (iv) 33 °C (v) 31 °C

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

46 , 58 , 53 , 53 , 55 , 44 , 46 , 44 , 52 , 44

(i) $\frac{101}{2}$ kg (ii) 50 kg (iii) $\frac{103}{2}$ kg (iv) $\frac{99}{2}$ kg

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20. Daily wages of 13 labourers (in ₹) are given below. Find the mean wage.

498 , 326 , 404 , 349 , 415 , 313 , 384 , 445 , 454 , 460 , 478 , 358 , 488

(i) ₹ 413.23 (ii) ₹ 414.23 (iii) ₹ 413.38 (iv) ₹ 415.23 (v) ₹ 413.31

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21. If the mean of 6 , 7 , 2 , x , 4 , 9 is $5\frac{1}{6}$, find the value of x.

(i) 2 (ii) 6 (iii) 1 (iv) 3 (v) 4

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22. The mean of the below random sample is $23\frac{3}{10}$. Find the missing quantity.

x , 14 , 39 , 16 , 23 , 18 , 38 , 19 , 36 , 16

(i) 14 (ii) 13 (iii) 11 (iv) 16 (v) 15

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23. Given the mean of 8 samples as $9\frac{3}{4}$,

what is the mean if a sample value is increased by 12 ?

(i) $\frac{23}{2}$ (ii) $\frac{45}{4}$ (iii) $\frac{43}{4}$ (iv) $\frac{67}{6}$ (v) $\frac{47}{4}$

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24. Given the mean of 9 samples as $11\frac{7}{9}$,

what is the mean if a sample value is decreased by 13 ?

(i) $\frac{29}{3}$ (ii) $\frac{31}{3}$ (iii) 11 (iv) $\frac{51}{5}$

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25. Given the mean of 10 samples as $5\frac{4}{5}$,

what is the new mean if two samples 4 and 5 are added ?

(i) $\frac{57}{10}$ (ii) $\frac{67}{12}$ (iii) $\frac{23}{4}$ (iv) $\frac{65}{12}$ (v) $\frac{11}{2}$

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26. Given the mean of 12 samples as $6\frac{1}{2}$,

what is the new mean if two samples 10 and 5 are removed ?

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

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27. The arithmetic mean of a + 2, a, and a - 2 is

(i) 3a (ii) a - 2 (iii) a + 2 (iv) a

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28. The arithmetic mean of 41 , 38 , 46 , 5 , 39 , 49 , 47 is

(i) 37.86 (ii) 38.86 (iii) 35.86 (iv) 36.86 (v) 39.86

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29. If the mean of 6 samples is $22\frac{5}{6}$,

what is the new mean if 7 is added to each number.

(i) $\frac{179}{6}$ (ii) $\frac{59}{2}$ (iii) $\frac{181}{6}$ (iv) $\frac{121}{4}$ (v) $\frac{237}{8}$

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30. If the mean of 4 samples is $18\frac{1}{2}$,

what is the new mean if 4 is subtracted from each number.

(i) $\frac{27}{2}$ (ii) $\frac{31}{2}$ (iii) $\frac{57}{4}$ (iv) 15 (v) $\frac{29}{2}$

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31. If the mean of 7 samples is $31\frac{2}{7}$,

what is the new mean if each number is multiplied by 4 .

(i) $\dfrac{1126}{9}$ (ii) $\dfrac{878}{7}$ (iii) $\dfrac{626}{5}$ (iv) $\dfrac{874}{7}$ (v) $\dfrac{876}{7}$

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32. The mean of 9 numbers is $10\dfrac{1}{9}$. Upon excluding one number, the mean becomes $10\dfrac{3}{4}$. Find the excluded number.

(i) 6 (ii) 2 (iii) 4 (iv) 5 (v) 8

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33. The mean of 7 numbers is $14\dfrac{4}{7}$. Upon adding one number, the mean becomes $14\dfrac{7}{8}$. Find the included number.

(i) 17 (ii) 18 (iii) 16 (iv) 15 (v) 20

Assignment Key

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