EduSahara™ Learning Center Assignment

Grade : Class VIII, SSC
Chapter : Frequency Distribution Tables and Graphs
Name : Arithmetic Mean
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1. If the mean of $6 , 7 , 3 , x , 10 , 8 , 1$ is $6\frac{2}{7}$, find the value of x.

   (i) 8 (ii) 10 (iii) 12 (iv) 6 (v) 9

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2. The mean of the below random sample is $34\frac{9}{10}$. Find the missing quantity.

   $19 , 47 , 30 , 39 , 42 , 44 , 35 , 27 , 43 , x$

   (i) 22 (ii) 26 (iii) 24 (iv) 23 (v) 20

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3. Given the mean of 13 samples as $14\frac{4}{13}$,
   what is the mean if a sample value is increased by 17 ?

   (i) $\frac{205}{13}$ (ii) $\frac{173}{11}$ (iii) $\frac{201}{13}$ (iv) $\frac{233}{15}$ (v) $\frac{203}{13}$

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4. Given the mean of 5 samples as $7\frac{4}{5}$,
   what is the mean if a sample value is decreased by 10 ?

   (i) $\frac{31}{5}$ (ii) $\frac{19}{3}$ (iii) $\frac{29}{5}$ (iv) $\frac{39}{7}$ (v) $\frac{27}{5}$

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5. Given the mean of 10 samples as $5\frac{9}{10}$,
   what is the new mean if two samples 4 and 5 are added ?

   (i) 7 (ii) $\frac{17}{3}$ (iii) $\frac{19}{3}$ (iv) $\frac{27}{5}$ (v) 5

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

   (i) $\frac{59}{10}$ (ii) $\frac{63}{10}$ (iii) $\frac{61}{10}$ (iv) $\frac{73}{12}$ (v) $\frac{49}{8}$

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7. Find the mean of all prime numbers between 10 and 80 .

(i) 43 (ii) 41 (iii) 44 (iv) 45 (v) 42

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8. Find the mean of all prime numbers between 50 and 80 .

(i) $\frac{465}{7}$ (ii) $\frac{331}{5}$ (iii) $\frac{463}{7}$ (iv) $\frac{595}{9}$ (v) $\frac{461}{7}$

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9. Find the mean of first 5 multiples of 6 .

(i) 20 (ii) 17 (iii) 19 (iv) 18 (v) 16

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10. Find the mean of first 10 whole numbers.

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

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11. Find the mean of first 10 multiples of 11 .

(i) $\frac{121}{2}$ (ii) $\frac{123}{2}$ (iii) 61 (iv) $\frac{241}{4}$ (v) $\frac{119}{2}$

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

(i) 15 (ii) 14 (iii) 16 (iv) 13 (v) 17

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13. Find the mean of the first 20 even numbers.

(i) 22 (ii) 24 (iii) 18 (iv) 21 (v) 20

The marks obtained by 13 students in a test are given below.

14. Find their mean marks.

26 , 40 , 38 , 47 , 6 , 21 , 28 , 46 , 24 , 22 , 41 , 13 , 35

(i) $\frac{329}{11}$ (ii) $\frac{89}{3}$ (iii) $\frac{389}{13}$ (iv) $\frac{385}{13}$ (v) $\frac{387}{13}$

The marks obtained by 15 students in a test are given below.

15. Find the mean of their marks when the marks of each student is increased by 5 .

37 , 43 , 27 , 30 , 14 , 29 , 36 , 12 , 47 , 40 , 20 , 35 , 4 , 39 , 39

(i) $\frac{527}{15}$ (ii) 35 (iii) $\frac{457}{13}$ (iv) $\frac{529}{15}$ (v) $\frac{597}{17}$

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16. 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 decreased by 4 .

37 , 2 , 31 , 18 , 40 , 34 , 9 , 7 , 29 , 46 , 13 , 23 , 50 , 5 , 26

(i) 20 (ii) 22 (iii) $\frac{102}{5}$ (iv) $\frac{62}{3}$ (v) $\frac{64}{3}$

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17. 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.

44 , 24 , 43 , 33 , 7 , 12 , 13 , 26 , 44 , 31 , 49 , 41 , 13

(i) $\frac{762}{13}$ (ii) $\frac{292}{5}$ (iii) $\frac{644}{11}$ (iv) $\frac{758}{13}$ (v) $\frac{760}{13}$

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

154 , 154 , 172 , 133 , 137 , 171 , 173 , 155 , 143 , 160 , 134 , 131 , 131 , 151

(i) $\frac{2101}{14}$ cm (ii) $\frac{2127}{14}$ cm (iii) $\frac{2113}{14}$ cm (iv) $\frac{2099}{14}$ cm (v) 150 cm

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19. Heights of 12 plants (in cm) are given below. Find the mean height.

60 , 67 , 78 , 92 , 89 , 92 , 76 , 57 , 54 , 77 , 60 , 78

(i) $\frac{223}{3}$ cm (ii) 74 cm (iii) $\frac{221}{3}$ cm (iv) $\frac{220}{3}$ cm (v) $\frac{226}{3}$ cm

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

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

(i) 12 years (ii) $\frac{179}{15}$ years (iii) $\frac{194}{15}$ years (iv) $\frac{181}{15}$ years (v) $\frac{209}{15}$ years

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21. Rainfall of 15 days (in mm) are given below. Find the mean rainfall.

7 , 13 , 13 , 5 , 9 , 5 , 8 , 8 , 8 , 10 , 13 , 6 , 10 , 7 , 7

(i) $\frac{48}{5}$ mm (ii) $\frac{44}{5}$ mm (iii) 9 mm (iv) $\frac{53}{5}$ mm (v) $\frac{43}{5}$ mm

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22. Scores of 12 students are given below. Find the mean score.

76 , 82 , 84 , 83 , 72 , 86 , 90 , 78 , 85 , 88 , 85 , 79

(i) $\frac{247}{3}$ (ii) $\frac{250}{3}$ (iii) 83 (iv) $\frac{253}{3}$ (v) $\frac{248}{3}$

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23. Temperatures of 13 days (in °C) are given below. Find the mean temperature.

33 , 28 , 27 , 30 , 30 , 30 , 29 , 30 , 30 , 32 , 28 , 30 , 25

(i) $\frac{395}{13}$ °C (ii) $\frac{382}{13}$ °C (iii) $\frac{384}{13}$ °C (iv) $\frac{383}{13}$ °C (v) $\frac{408}{13}$ °C

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

54 , 49 , 43 , 54 , 52 , 51 , 46 , 42 , 59 , 60

(i) 53 kg (ii) 49 kg (iii) 51 kg (iv) 52 kg (v) 50 kg

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25. Daily wages of 15 labourers (in ₹) are given below. Find the mean wage.

447 , 403 , 459 , 318 , 315 , 367 , 444 , 418 , 424 , 437 , 469 , 338 , 374 , 361 , 475

(i) ₹ 404.27 (ii) ₹ 403.27 (iii) ₹ 403.33 (iv) ₹ 405.27 (v) ₹ 403.40

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26. If the mean of 6 samples is $31\frac{2}{3}$,
what is the new mean if 3 is added to each number.

(i) 36 (ii) $\frac{106}{3}$ (iii) $\frac{172}{5}$ (iv) $\frac{104}{3}$ (v) 34

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27. If the mean of 6 samples is $32\frac{1}{6}$,
what is the new mean if 4 is subtracted from each number.

(i) $\frac{57}{2}$ (ii) $\frac{167}{6}$ (iii) $\frac{225}{8}$ (iv) $\frac{169}{6}$ (v) $\frac{113}{4}$

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28. If the mean of 6 samples is $33\frac{5}{6}$,
what is the new mean if each number is multiplied by 3 .

(i) $\frac{203}{2}$ (ii) $\frac{205}{2}$ (iii) 102 (iv) $\frac{405}{4}$ (v) $\frac{201}{2}$

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29. The mean of 10 numbers is $10\frac{1}{10}$. Upon excluding one number, the mean becomes $9\frac{7}{9}$. Find the excluded number.

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

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30. The mean of 6 numbers is $9\frac{1}{2}$. Upon adding one number, the mean becomes $8\frac{5}{7}$. Find the included number.

(i) 3 (ii) 7 (iii) 5 (iv) 1 (v) 4

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31. The scores obtained by 8 students in a test are

19 , 6 , 6 , 7 , 7 , 15 , 2 , 9

Find the mean score.

(i) 7 (ii) 19 (iii) $8\frac{7}{8}$ (iv) 6 (v) 2

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

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

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33. The arithmetic mean of 13 , 24 , 42 , 49 , 37 , 6 , 35 is

(i) 30.43 (ii) 29.43 (iii) 28.43 (iv) 27.43 (v) 31.43

Assignment Key

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