

Worksheet

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Class - V Pg - 1 Sub - Maths



1.a. The Average of a set of values is the sum of the values divided by the number of values in the set.

b. Average is a number which is roughly between the smallest and the largest number or quantity.

c. The average gives us an idea about the general value of a number group of numbers.

d. The average is the arithmetical mean value of the number of given values.

e. $\text{Sum of the values} = \text{Average} \times$
number of values

2.a) 2, 3, 5, 7, 11

Average = $\frac{\text{Sum of the numbers}}{\text{Number of numbers}}$

$$= \frac{2 + 3 + 5 + 7 + 11}{5}$$

$$= \frac{28}{5}$$

$\Rightarrow 5.6$ (Ans)

So the average is 5.6

b) 14g, 16g, 36g, 42g

Average = $\frac{\text{Sum of the numbers}}{\text{Number of numbers}}$

$$= \frac{14 + 16 + 36 + 42}{4}$$

$$= \frac{108}{4}$$

$$= 27$$

So the average is 27



C. Number of item = 15
 total value of item = 105

$$\text{Average} = \frac{\text{Total value of item}}{\text{Number of item}}$$

$$= \frac{105}{15}$$

$$= 7 \text{ (Ans)}$$

Thus the average = 7

$$d) \frac{6}{7}, \frac{2}{5}, \frac{11}{7}$$

= $\frac{\text{sum of the quantities}}{\text{Number quantities}}$

$$= \frac{\cancel{\frac{6}{7}} + \frac{2}{5} + \cancel{\frac{11}{7}}}{3}$$

$$\text{Lcm} = \cancel{35} \quad 7 \times 5 = 35$$

$$\Rightarrow \frac{\cancel{6} \times 5 + 2 \times 7 + \cancel{11} \times 5}{35}$$

$$= \frac{30 + 14 + 55}{35} = \frac{99}{35}$$

$$= \frac{99}{35}$$

$$= \frac{99}{35} \times \frac{1}{7} = \frac{33}{35}$$

e) Average of the items

$$= \text{Average} \times \text{Number of quantities}$$

$$= 21 \times 21$$

Sum of the numbers

$$= 441$$

3. a) solution: ~~sum~~ height of the

4 family members = 153cm

150cm, 151cm, 152cm
of 5 members

Average = 150cm

Sum of the height of

4 family members = 606cm

see height of the 5

family members = 150

$$\times 5 = 750 \text{ cm}$$

Height of the fifth

family member = ~~750~~

$$= 750 - 606 = 144 \text{ cm}$$

∴ So the height of the 5th member of the family is 144 cm.

b) solution: The average of 1st 5 numbers = 25

The average of 15 numbers ^{others} = 35

The average of ten numbers

together = sum of the 1st numbers ~~+~~

sum of the ^{others} 10 numbers.

$$\text{sum of the 1st 5 numbers} = 35 \times 5 = 175$$

$$\text{sum of the } ~~2~~ \text{ other 10 numbers} = 25 \times 5$$

$$= 125$$

$$\text{Average of 10 numbers} = \frac{175 + 125}{10}$$

$$= \frac{300}{10}$$

$$= 30$$

∴ Therefore the average of 10 numbers is 30.

C) Average salary of a week
 $= ₹ 9800$

Sum of the salary in 9

$$\text{week} = ₹ 9800 \times 7 = ₹ 68600$$

Amount of money he earns

$$\text{in 52 weeks} = 68600 \times 52$$

$$= ₹ 35,67,200$$

∴ Therefore the amount of money mini's father earns

$$\text{in 52 weeks} = ₹ 35,67,200$$

d) Average age of all the students =

Age of all students = 11 years
10 months, 12 years, 12 years 7 months,

11 years 6 months, 13 years, 12 years,

11 years 11 months, 13 years 2 months

= 142 months, 144 months, 151 months,
138 months, ~~158 months~~, 156 months,
144 months, 143 months, 158 months

Average = ~~1176~~

Sum of the numbers
Number of numbers

$$= \frac{142 + 144 + 151 + 138 + 156}{8}$$

$$= \frac{1176}{8}$$

$$= 147 \text{ kg}$$

∴ Therefore the average age of the students = 147 kg

Page-8

weight of all students

= 33 kg, 34 kg, 38 kg, 33 kg

36 kg, 32 kg, 36 kg, 38 kg

Average = $\frac{\text{sum of the quantities}}{\text{Number of quantities}}$

= $33 + 34 + 38 + 33 + 36 + 32 +$

$36 + 38$

= $\frac{280}{8}$

= 35 kg

∴ Therefore the Average weight of the students = 35

e) Find the average of

11.35, 12.65, 11, 7.25, 14.85,

15.55

Average = $\frac{\text{sum of the quantities}}{\text{Number of quantities}}$

= 11.35

15.55

= $\frac{72.65}{6}$

= 12.10

∴ Therefore

= 12.10

$$= 11.35 + 12.65 + 11 + 7.25 + 14.85 +$$

$$15.65$$

$$= \frac{72.65}{6}$$

6

6

$$= 12.10833$$

∴ Therefore the Average

$$= 12.10833$$