

Average

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Average - Worksheet.

- 1) a) The average of a set of values is the sum of the values divided by the number of values in the set ~~of~~ ~~values~~.
- b) ~~The~~ Average is a number which is roughly between the smallest and the ~~to~~ largest number ~~on a~~ quantity ~~ess~~.
- c) The average ~~is~~ is the arithmetical mean value of the number of given values.
- d) The average ~~is~~ gives us an idea about the general values of a group.
- e) ~~The~~ Sum of the values = Average \times Number of quantities.

2.) a) The 1st five prime numbers are 2, 3, 5, 7, 11

$$\text{So, their average} = \frac{2+3+5+7+11}{5}$$

$$= \frac{28}{5} = 4.5$$

b) $\frac{14 + 16 + 36 + 42}{4}$

$$= \frac{108}{4} = 27 \text{ kg}$$

c) Number of items = 15

Total values = 105

$$\text{Average} = \frac{105}{15} = 7$$

d) $\frac{30 + 14 + 55}{35} = \frac{99}{35} = 0.353535354$

e) Find the No. of item a red and average is 21 then sum of the item is $21 + 21 = 42$

3. a) The average height of family of five = 150 cm

The height of ~~five~~ 4 family members = 153 cm, 150 cm, 151 cm, 152 cm

The average height of 4 family members = $153 + 150 + 151 + 152$

3) a) Average height of 5 members = 150 cm

So, total heights of 5 members = $150 \times 5 = 750$ cm

Heights of 4 members are 150 cm, 153 cm, 151 cm, 152 cm

Total heights of 4 members =

$$\frac{153 + 150 + 151 + 152}{4} = 606 \text{ cm}$$

Height of the fifth member
 $= 750 \text{ cm} - 606 \text{ cm} = 144 \text{ cm}$

b) Average earning of mini's father per week = ₹ 9800

His earning in 52 weeks
 $= ₹ 9800 \times 52$

$$= ₹ 5,09,600$$

c) The average of 5 numbers
 $= 25$

So, sum of the 5 numbers
 $= 25 \times 5 = 125$

The average of another 5 numbers = 35

So, sum of other 5 numbers
 $= 35 \times 5 = 175$

$$\begin{aligned} \text{Sum of ten numbers} &= 125 + 175 \\ &= \underline{300} = 30 \\ &\quad 10 \end{aligned}$$

d) Sonali's age = 132 months
Vandana
Renu's age = ~~149~~ 144 months

Rohit's age = 151 months

Sweta's age = 138 months

Vaibhav's age = 156 months

Manik's age = 143 months

~~Manik's age = 143 months~~
Chris's age = 158

The average age =

$$\begin{aligned} &\underline{132 + 144 + 151 + 138 + 156 + 143 + 158} \\ &\quad \quad \quad 7 \\ &= \underline{1022} = 146 \\ &\quad \quad 7 \end{aligned}$$

$$\text{Total weigh of 7 students} \\ = \underline{33 + 34 + 38 + 33 + 32 + 36 + 39}$$

$$= \frac{247}{7} = 41$$

e) ~~$11.35 + 12.65 + 11 + 7.25 + 14.85$~~

$$11.35 + 12.65 + 11 + 7.25 + 14.85 = 57.05$$

$$\frac{71.65}{6} = 8.95825$$