Average
WORKSHEET

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1. a) The averge 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 of quantity.

c) The average is the arthimetical mean value of the number of given values / quantities.

d) The averge gives us an idea about the general value of a group

e) Sum of the values = Averge X No of quantities

2a) Ans) The 1st five prime numbers is = 2, 3, 5, 7, 11.

The averge of the 1st five prime numbers is = $\frac{\text{Sum of quantities}}{\text{No of quantities}}$

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

$= \frac{28}{5} = 5.6$

b Ans) The averge weight of 14g, 16g, 36g, 42g $= \frac{\text{Sum of quantities}}{\text{No of quantities}}$

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

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

c Ans) The average if no of item is = 15

The total value of item is = 105

The average is $= \frac{105}{15} \Rightarrow$

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

L.C.M = 7 | 5, 7, 7
5 | 5, 1, 1
1, 1, 1

$\therefore 7 \times 5 = 35$

$= \frac{(6\times5)+(2\times7)+(11\times5)}{35}$

$= \frac{30+14+55}{35} = 3$

$= \frac{99}{35} = \frac{33}{35} \times \frac{1}{3}$

$= \frac{33}{35}$

c) Ans) ~~The missing value~~

No of item are = 21

The averge is = 21

Sum of the items is = 21 X 21 = 441

Average x No of quantities

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

The total height of a family of five is = 5 x 150 = 750

The total height of 4 family members is = 606

The height of the fifth member =

750 - 606 = 144 cm

b Ans) The average of 5 numbers is = 144 cm

The total of 5 numbers is = 5 X 25 = 125

The average of another 5 numbers is = 35

The total of another 5 numbers = 5 X 35 = 175

weight of

Total 10 numbers taken together =
125 + 175 = 300

Average 10 numbers taken together
$= \frac{300}{10} = 30$

(Ans) Mini father earns on an
average in a week = ₹9800
He earn in 52 weeks = ₹9800 × 52 =
₹5,09,600

(Ans) Sonali age = 11×12+10 = 142 months

Vandana age = 12×12 = 144 months

Rohit age = 12×12+7 = 151 months

Shweta age = 11×12+6 = 138 months

Vaibhav age = 13×12 = 156 months

Manik age = 12×12 = 144 months

Zakir age = 11×12+11 = 143 months

Chris = 13×12+2 = 158 months

So average = $\frac{\text{Sum of quantities}}{\text{No of quantities}}$

$= \frac{142 + 144 + 151 + 138 + 156 + 144 + 143 + 158}{8}$

$= \frac{1176}{8} = 147.25$ months

Sonali weight = 33kg

Vandana weight = 34kg

Rohit weight = 38kg

Shweta weight = 33kg

Vaibhav weight = 36kg

Manik weight = 32kg

Zakir weight = 36kg

Chris weight = 38kg

So average = $\frac{\text{Sum of quantities}}{\text{No of quantities}}$

$= \frac{33 + 34 + 38 + 33 + 36 + 32 + 36 + 38}{8}$

$= \frac{280}{8} = 35$ kg.

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(Ans) The averge is = $\frac{\text{Sum of quantities}}{\text{No of quantities}}$

$= \frac{11.35 + 12.65 + 11 + 7.25 + 14.85 + 15.55}{6}$

$= \frac{72.65}{6} = 12.183$