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AVERAGE (Worksheet)

A. Fill in the blanks.

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

2) Average is a number which is roughly between the smallest and the largest ~~of values in the set~~ number or quantity.

3. The average gives us an idea about the general value of a group.

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

5. Sum of the values = Average x No. of quantities

2. Do as directed.

1) Average of 1st 5 Prime numbers

Ans- 2, 3, 5, 7, 11 are five first prime number. Average = The sum of the given quantities / No. of quantities

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

b) What is the average weight: 14g, 16g, 36g, 42g

Ans. Average $= \frac{14+16+36+42}{4} = \frac{108}{4} = 27$

c) Find the average if number of item is 15 and the total value of item is 105.

Ans. Average = The total value of item / No. of item

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

d) Find the average of $\frac{6}{7}, \frac{2}{5}, \frac{11}{7}$

Ans- Average $= \frac{\frac{6}{7}+\frac{2}{5}+\frac{11}{7}}{3} = \frac{\frac{30+14+55}{35}}{3}$

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

2) Find the missing value: No. of ite
are 21 and average is 21 then sum
of the item is ___ 21 X 21 = 441

3. Solve as per the given instuctions.

a) The average height of a family of fi
is 150 cm. if the height of 4 family
members is 153 cm, 150 cm, 151 cm, and
152 cm, find the height of the fifth
member.

Ans Average height of Family of five = 150 cm
No of Family member = 5
~~Average = No of Family member~~
Total height of Family member = 150 X 5
= 750 cm
Four members height = (153 + 150 + 151 + 152) = 606 cm
= 750 - 606 = 144 cm
∴ So, the height of the fifth member is
144 cm

b) The average of 5 numbers is 25 and the average of another 5 numbers is 35. Find the average of the 10 numbers taken together.

Ans - The sum of 5 no = Average X no of quantities = 25 X 5 = 125

The sum of another 5 no = Average X no of quantities = 35 X 5 = 175

∴ The average of the 10 no = $\frac{125+175}{10}$

$= \frac{300}{10} = 30$ ← Answer

c) Mini's father earns on an average ₹ 9800 a week. How much does he earn in 52 weeks?

Ans - Average earning on a week = ₹ 9800

Average earning on 52 week =

9800 X 52 = ₹ 5,10,600

∴ He earns ₹ 5,10,600 in 52 weeks

d) Average Age of 8 students =

$$\frac{\text{Sum of given age}}{\text{No of students}} = \frac{142 + 144 + 151 + 138 + 166 + 144 + 143 + 168}{8} = 149.5$$

= 12 years 10 months

Average ~~age~~ weight of 8 student = $\frac{33 + 34 + 38 + 33 + 36 + 32 + 36 + 38}{8} = \frac{280}{8} = 35$

∴ So the average weight of 8 student is 35 kg.

e) The average of 11.35, 12.65, 11, 7.25, 14.85, 15.55

$$= \frac{\text{Sum of given numbers}}{}$$

$$= 11.35 + 12.65 + 11 + 7.25 + 14.85 + 15.55 = \frac{61.76}{6} = \frac{72.65}{6} = 12.108$$