

Average

Worksheet

Date: |

SCHOLAR

Page: |

1. a) Average
- b) ~~largest~~ Greatest
- c) Group
- d) Arithmetical Mean
- e) Quantities

2. a) 1st 5 prime numbers are =

2, 3, 5, 7, 11

The average of the following
 $= \frac{2+3+5+7+11}{5}$

$$= \frac{28}{5} = (5.6) \text{ or } \left(\frac{53}{5} \right)$$

b) 14g, 16g, 36g, 42g
= The average of the following
 $= \frac{14+16+36+42}{4}$

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

c) Number of item = 15

Total value of item is = 105

$$\text{Average} = \frac{\text{Total value}}{\text{Total No}} \\ = \frac{105}{5} \\ = 21$$

Hence, the Average No. is 21

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

The average of the following

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

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

$$= \frac{99}{35} = 2 \frac{29}{35}$$

e) Average No. of item = 21
Sum of the numbers = 21 x 21
= 231

3.a) The average height of a family of five is = 150 cm
The ~~average~~ height of a family of a four is = $\frac{153 \text{ cm} + 150 \text{ cm} + 151 \text{ cm} + 152 \text{ cm}}{4}$

$$= \frac{606}{4}$$

The height of fifth member

$$= \frac{606 - 150}{4}$$

$$= \frac{606 - 600}{4}$$

$$= \frac{6}{4} \text{ cm} = 1.5 \text{ cm}$$

~~$$= \frac{606 - 150}{4}$$~~

b) The average of 5 numbers = 25

$$\text{Sum of 5 numbers} = 25 \times 5 = 125$$

The average of another 5 numbers = 35

$$\text{Sum of 5 numbers} = 35 \times 5 = 175$$

~~Sum~~
$$\text{Sum of 10 numbers} = 125 + 175$$

$$\text{Average of 10 numbers} = 300$$

c) Amount of money Mini's father earns on an average in a week

$$= ₹ 9800$$

Amount of money he earns

$$\text{in 52 weeks} = ₹ 9800 \times 52$$

$$= ₹ 2,50,9600$$

- d) Age of Sonali = $11 \times 12 + 10 = 142$ months
- Age of Vandana = $17 \times 12 = 204$ months
- Age of Rohit = $12 \times 12 + 7 = 231$ months
- Age of Shweta = $11 \times 12 + 6 = 138$ months
- Age of Vaibhav = $13 \times 12 = 156$ months
- Age of Manik = $12 \times 12 = 144$ months
- Age of Zakir = $11 \times 12 + 11 = 143$ months
- Age of Chris = $13 \times 12 + 2 = 158$ months

The average age of kids:

$$= \frac{142 + 204 + 231 + 138 + 156 + 144 + 143 + 158}{8}$$
$$= \frac{1536}{8} = 192$$

- Weight of Sonali = 33 kg
- Weight of Vandana = 34 kg
- Weight of Rohit = 38 kg
- Weight of Shweta = 33 kg
- Weight of Vaibhav = 36 kg
- Weight of Manik = 32 kg
- Weight of Zakir = 36 kg
- Weight of Chris = 38 kg

The average weight of kids:

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

$$\frac{-280}{8} = 35$$

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

$$= \frac{72.65}{6} = 12.10833$$

$$\begin{array}{r} 6 \overline{) 72.65} \\ \underline{6} \\ 12 \\ \underline{12} \\ 0 \end{array}$$

$$\begin{array}{r} 6 \\ 6 \\ 5 \\ \underline{0} \\ 50 \\ \underline{48} \\ 20 \\ \underline{18} \\ 20 \\ \underline{18} \\ 2 \end{array}$$