

1. Find the average

a) 50, 41, 47, 48, 40, 94

Ans)

~~45~~

$$\begin{array}{r}
 1 \quad 5 \overline{) 270} \quad 6 \overline{) 270} \\
 \underline{54} \qquad \qquad \underline{45} \\
 216 \qquad \qquad 270 \\
 \underline{54} \qquad \qquad \underline{0} \\
 0 \qquad \qquad \qquad 0
 \end{array}$$

b) 10, 20, 30, 40, 50, 60, 70, 80, 90, 100

Ans) 55

$$\begin{array}{r}
 6 \quad 10 \quad 15 \quad 21 \quad 28 \\
 36 \quad 45 \quad 55 \quad 0
 \end{array}$$

c) 35, 42, 31, 53, 16, 34, 27

Ans) 34

$$\begin{array}{r}
 10 \overline{) 550} \\
 \underline{50} \\
 50 \\
 \underline{50} \\
 0
 \end{array}$$

24, 21, 26, 25, 18, 20, 27, 23

Ans 23

$$\begin{array}{r}
 7 \overline{) 238} \\
 \underline{21} \\
 28 \\
 \underline{28} \\
 0
 \end{array}$$

e) $\frac{3}{8}, 1\frac{1}{4}, \frac{2^5}{6}, 4\frac{1}{2}, 6\frac{1}{3}$

$$= \frac{3}{8} + \frac{5}{4} + \frac{17}{6} + \frac{9}{2} + \frac{22}{3}$$

$$= \frac{9 + 30 + 68 + 108 + 176 = 391}{24} \quad \text{LCM} = 24$$

$$\text{Average} = \frac{391}{24} \times \frac{1}{5} = \frac{391}{120} = 3\frac{31}{120}$$

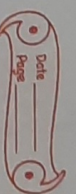
f) $2\frac{3}{5}, 3\frac{3}{10}, 3\frac{1}{2}, 3\frac{1}{2}, \frac{2}{5}, \frac{9}{10}, 1\frac{1}{2}$

$$= 2\frac{3}{5} + 3\frac{3}{10} + 3\frac{1}{2} + 3\frac{1}{2} + \frac{2}{5} + \frac{9}{10} + 1\frac{1}{2}$$

$$\frac{46 + 33 + 35 + 4 + 9 + 15 = 142}{10}$$

$$\begin{array}{r}
 142 \times 1 = 142 \\
 5 \quad = \quad 30 = 25 \quad = \quad 2\frac{21}{25}
 \end{array}$$

$$\text{Average} = 2\frac{21}{25}$$



Lcm is 10

9 $\frac{7}{12}, \frac{2}{5}, \frac{5}{4}, \frac{1}{2}, \frac{5}{12}, \frac{1}{6}$

$\frac{7+34+60+65+5+2}{12} = \frac{123}{12}$
LCM = 12

$\frac{123}{12} \times \frac{1}{6} = \frac{123}{72} = \frac{41}{24} = 1\frac{17}{24}$

Average = $\frac{17}{24}$

10) $\frac{1}{5}, \frac{1}{4}, \frac{1}{2}, \frac{1}{6}, \frac{3}{8}$

$\frac{6+18+12+4+9}{24} = \frac{49}{24}$
LCM = 24

$\frac{49}{24} \times \frac{1}{5} = \frac{49}{120}$

Average = $\frac{49}{120}$

2 rain in Janshadpur = 6 year

Rough

1st year = 28.5 cm

2nd year = 30.25 cm

3rd year = 32.4 cm

4th year = 31.6 cm

5th year = 24 cm

6th year = 30.25 cm

- 11
- 28.5
- 30.25
- 32.4
- 31.6
- 24
- 30.25
- 0

3 Find the average of all even numbers between 7 and 23

8, 10, 12, 14, 16, 18, 20, 22

$$8 + 10 + 12 + 14 + 16 + 18 + 20 + 22 = 120$$

$$120 \div 8 = 15$$

$$\text{Average} = 15$$

4 Find the average of all even numbers between 10 and 30

11, 13, 15, 17, 19, 21, 23, 25, 27, 29

$$11 + 13 + 15 + 17 + 19 + 21 + 23 + 25 + 27 + 29 = 181$$

$$181 \div 10 = 18.1$$

$$\text{Average} = 18.1$$