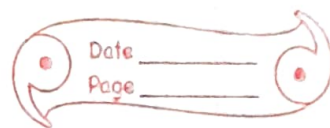


HW  
9.11.2021

## Exercise - 11(A)



1. Find the average of:

(a) 50, 41, 47, 40, 44

$$= \frac{50 + 41 + 47 + 40 + 44}{6}$$

$$= \frac{210}{6} = 35$$

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

$$= \frac{10 + 20 + 30 + 40 + 50 + 60 + 70 + 80 + 90 + 100}{10}$$

$$= \frac{550}{10} = 55$$

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

$$= \frac{35 + 42 + 31 + 53 + 16 + 34 + 27}{7}$$

$$= \frac{238}{7} = 34$$

$$d) 24, 21, 26, 25, 18, 20, 27, 23$$

$$\frac{24 + 21 + 26 + 25 + 18 + 20 + 27 + 23}{8}$$

$$= \frac{184}{8} = 23$$

$$(e) \frac{3}{8} + 1\frac{1}{4} + 2\frac{5}{6} + 4\frac{1}{2} + 6\frac{2}{3} \quad \text{LCM} = 24$$

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

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

Quantities = 5

$$\text{Averages} = \frac{391}{24} \cdot 5 = \frac{391}{24} \cdot \frac{5}{1} = \frac{391}{24} = 3\frac{31}{24}$$

3. Find the average of all even numbers between

7 and 23

Solution

Even numbers = 8, 10, 12, 14, 16, 18, 20, 22

$$\text{Average} = \frac{8+10+12+14+16+18+20+22}{8}$$

$$= \frac{120}{8} = 15$$

4. Find the average of all odd numbers between

10 and 30

Solution

Odd numbers = 11, 13, 15, 17, 19, 21, 23, 25, 27, 29

$$\text{Average} = \frac{11+13+15+17+19+21+23+25+27+29}{10}$$

$$\frac{208}{10} = 20.8$$