

**EXERCISE 34(A)****1. Find the mean of:****(i) 7, 10, 4 and 17****(ii) 12, 9, 6, 11 and 17****(iii) 3, 1, 5, 4, 4 and 7****(iv) 7, 5, 0, 3, 0, 6, 0, 9, 1 and 4****(v) 2.1, 4.5, 5.2, 7.1 and 9.3****Solution:****(i) Given**

Numbers are 7, 10, 4 and 17

The mean can be calculated as below

Mean = Sum of numbers / Number of numbers

$$= (7 + 10 + 4 + 17) / 4$$

We get,

$$= 38 / 4$$

$$= 9.5$$

Hence, mean = 9.5

**(ii) Given**

Numbers are 12, 9, 6, 11 and 17

The mean can be calculated as below

Mean = Sum of numbers / Number of numbers

$$= (12 + 9 + 6 + 11 + 17) / 5$$

We get,

$$= 55 / 5$$

$$= 11$$

Hence, mean = 11

**(iii) Given**

Numbers are 3, 1, 5, 4, 4 and 7

The mean can be calculated as below

Mean = Sum of numbers / Number of numbers

$$= (3 + 1 + 5 + 4 + 4 + 7) / 6$$

We get,

$$= 24 / 6$$

$$= 4$$

Hence, mean = 4

**(iv) Given**

Numbers are 7, 5, 0, 3, 0, 6, 0, 9, 1 and 4

The mean can be calculated as below

Mean = Sum of numbers / Number of numbers

$$= (7 + 5 + 0 + 3 + 0 + 6 + 0 + 9 + 1 + 4) / 10$$

We get,

$$= 35 / 10$$

$$= 3.5$$

Hence, mean = 3.5

(v) Given

Numbers are 2.1, 4.5, 5.2, 7.1 and 9.3

The mean can be calculated as below

Mean = Sum of numbers / Number of numbers

$$= (2.1 + 4.5 + 5.2 + 7.1 + 9.3) / 5$$

We get,

$$= 28.2 / 5$$

$$= 5.64$$

Hence, mean = 5.64

**2. Find the mean of:**

**(i) first eight natural numbers**

**(ii) first six even natural numbers**

**(iii) first five odd natural numbers**

**(iv) all prime numbers upto 30**

**(v) all prime numbers between 20 and 40**

**Solution:**

(i) The first eight natural numbers are as follows:

1, 2, 3, 4, 5, 6, 7 and 8

Hence, the mean can be calculated as below

Mean = Sum of numbers / Number of numbers

$$= (1 + 2 + 3 + 4 + 5 + 6 + 7 + 8) / 8$$

We get,

$$= 36 / 8$$

$$= 4.5$$

Therefore, mean = 4.5

(ii) The first six even natural numbers are as follows:

2, 4, 6, 8, 10 and 12

Hence, the mean can be calculated as below

Mean = Sum of numbers / Number of numbers

$$= (2 + 4 + 6 + 8 + 10 + 12) / 6$$

We get,

$$= 42 / 6$$

$$= 7$$

Therefore, mean = 7

(iii) First five odd natural numbers are as follows:

1, 3, 5, 7 and 9

Hence, the mean can be calculated as below

Mean = Sum of numbers / Number of numbers

$$= (1 + 3 + 5 + 7 + 9) / 5$$

We get,

$$= 25 / 5$$

$$= 5$$

Therefore, mean = 5

(iv) Prime numbers till 30 are as follows:

2, 3, 5, 7, 11, 13, 17, 19, 23 and 29

Hence, the mean can be calculated as below

Mean = Sum of numbers / Number of numbers

$$= (2 + 3 + 5 + 7 + 11 + 13 + 17 + 19 + 23 + 29) / 10$$

We get,

$$= 129 / 10$$

$$= 12.9$$

Therefore, mean = 12.9

(v) All prime numbers between 20 and 40 are as follows:

23, 29, 31 and 37

Hence, the mean can be calculated as below

Mean = Sum of numbers / Number of numbers

$$= (23 + 29 + 31 + 37) / 4$$

We get,

$$= 120 / 4$$

$$= 30$$

Therefore, mean = 30

**3. Height (in cm) of 7 boys of a locality are 144 cm, 155 cm, 168 cm, 163 cm, 167 cm, 151 cm and 158 cm. Find their mean height.**

**Solution:**

Given

Height of 7 boys of a locality = 144 cm, 155 cm, 168 cm, 163 cm, 167 cm, 151 cm and 158 cm

Hence, the mean can be calculated as follows:

Mean = Sum of height / Number of boys

$$= (144 + 155 + 168 + 163 + 167 + 151 + 158) / 7$$

We get,

$$= 1106 / 7$$

$$= 158 \text{ cm}$$

Therefore, mean height = 158 cm

**4. Find the mean of 35, 44, 31, 57, 38, 29, 26, 36, 41 and 43.**

**Solution:**

Given

Numbers are 35, 44, 31, 57, 38, 29, 26, 36, 41 and 43

Hence, the mean can be calculated as below

Mean = Sum of numbers / Number of numbers

$$= (35 + 44 + 31 + 57 + 38 + 29 + 26 + 36 + 41 + 43) / 10$$

We get,

$$= 375 / 10$$

$$= 37.5$$

Therefore, mean = 37.5

**5. The mean of 18, 28, x, 32, 14 and 36 is 23. Find the value of x. Sum of data**

**Solution:**

Given

Mean of 18, 28, x, 32, 14 and 36 = 23

Hence, the value of x can be calculated as below

Mean = (Sum of numbers) / (Number of numbers)

$$23 = (18 + 28 + x + 32 + 14 + 36) / 6$$

On further calculation, we get

$$23 \times 6 = x + 128$$

$$138 = x + 128$$

$$x = 138 - 128$$

We get,

$$x = 10$$

Hence, the value of x is 10

**6. If the mean of x, x + 2, x + 4, x + 6 and x + 8 is 13, find the value of x. Sum of data**

**Solution:**

Given

Mean of x, x + 2, x + 4, x + 6 and x + 8 is 13

Hence, the value of x can be calculated as below

Mean = (Sum of numbers) / (Number of numbers)

$$13 = [x + (x + 2) + (x + 4) + (x + 6) + (x + 8)] / 5$$

On further calculation, we get

$$13 \times 5 = 5x + 20$$

$$65 = 5x + 20$$

$$5x = 65 - 20$$

$$5x = 45$$

We get,

$$x = 9$$

Hence, the value of  $x$  is 9

