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Exercise 14.1

1. A survey was conducted by a group of students as a part of their environment awareness program, in which they collected the following data regarding the number of plants in 20 houses in a locality. Find the mean number of plants per house.

Number of Plants	0-2	2-4	4-6	6-8	8-10	10-12	12-14
Number of Houses	1	2	1	5	6	2	3

Which method did you use for finding the mean, and why?

Solution:
In order to find the mean value, we will use direct method because the numerical value of f_i and x_i are small.
Find the midpoint of the given interval using the formula.
Midpoint (x_i) = (upper limit + lower limit)/2

No. of plants (Class interval)	No. of houses Frequency (f_i)	Mid-point (x_i)	$f_i x_i$
0-2	1	1	1
2-4	2	3	6
4-6	1	5	5
6-8	5	7	35
8-10	6	9	54
10-12	2	11	22
12-14	3	13	39
	Sum $f_i = 20$		Sum $f_i x_i = 162$

The formula to find the mean is:

$$\text{Mean} = \bar{x} = \frac{\sum f_i x_i}{\sum f_i}$$

$$= \frac{162}{20}$$

$$= 8.1$$

Therefore, the mean number of plants per house is 8.1

2. Consider the following distribution of daily wages of 50 workers of a factory.

Daily wages (in Rs.)	100-120	120-140	140-160	160-180	180-200
Number of workers	12	14	8	6	10

Find the mean daily wages of the workers of the factory by using an appropriate method.

Solution:
Find the midpoint of the given interval using the formula.
Midpoint (x_i) = (upper limit + lower limit)/2
In this case, the value of mid-point (x_i) is very large, so let us assume the mean value, $A = 150$ and class interval is $h = 20$.
So, $u_i = (x_i - A)/h = u_i = (x_i - 150)/20$
Substitute and find the values as follows:

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Q3. A contractor plans to install two slides for the children to play in a park. For the children below the age of 5 years, she prefers to have a slide whose top is at a height of 1.5 m and is inclined at an angle of 30° to the ground, whereas for elder children she wants to have a steep slide at a height of 3m and inclined at an angle of 60° to the ground. What should be the length of the slide in each case?

Difficulty Level: Medium

Unknowns:
Length of the slide for children below the age of 5 years and elder children.

Knowns:

(i) For the children below the age of 5 years,
Height of the slide = 1.5 m
Slide's angle with the ground = 30°

(ii) For elder children,
Height of the slide = 3m
Slide's angle with the ground = 60°

Reasoning:
Let us consider the following conventions for the slide installed for children below 5 years:

- The height of the slide as AC.
- Distance between the foot of the slide to the point where it touches the ground as AB.
- Length of the slide as BC.

Let us consider the following conventions for the slide installed for elder children:

- The height of the slide PQ.
- Distance between the foot of the slide to the point where it touches the ground as PR.
- Length of the slide as QR.

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