

## EduSahara™ Learning Center Assignment

**Grade : Class VIII, ICSE**

**Chapter : Statistics**

**Name : Mean of Grouped Data**

**Licensed To : Teachers and Students for non-commercial use**

The daily wages of 117 workers in a factory are given below.

Find the mean wage.

1.

| Wage (in rupees) | 20 - 26 | 26 - 32 | 32 - 38 | 38 - 44 | 44 - 50 | 50 - 56 | 56 - 62 |
|------------------|---------|---------|---------|---------|---------|---------|---------|
| No. of workers   | 9       | 30      | 15      | 7       | 13      | 30      | 13      |

(i) ₹ 41.56 (ii) ₹ 41.54 (iii) ₹ 41.51 (iv) ₹ 42.51 (v) ₹ 43.51

The following table shows the weights of 73 persons in a group.

Find the mean weight.

2.

| Weight (in kg) | 10 - 17 | 18 - 25 | 26 - 33 | 34 - 41 | 42 - 49 | 50 - 57 |
|----------------|---------|---------|---------|---------|---------|---------|
| No. of persons | 14      | 20      | 5       | 6       | 14      | 14      |

(i)  $\frac{2378}{73}$  kg (ii)  $\frac{4901}{146}$  kg (iii)  $\frac{4757}{146}$  kg (iv)  $\frac{4755}{146}$  kg (v)  $\frac{5047}{146}$  kg

The following table shows the weights of 57 persons in a group.

Find the mean weight.

3.

| Weight (in kg) | 20 - 30 | 30 - 40 | 40 - 50 | 50 - 60 | 60 - 70 | 70 - 80 |
|----------------|---------|---------|---------|---------|---------|---------|
| No. of persons | 19      | 5       | 7       | 11      | 10      | 5       |

(i)  $\frac{903}{19}$  kg (ii)  $\frac{884}{19}$  kg (iii)  $\frac{867}{19}$  kg (iv)  $\frac{865}{19}$  kg (v)  $\frac{866}{19}$  kg

The daily wages of 101 workers in a factory are given below.

Find the mean wage.

4.

| Wage (in rupees) | 30 - 39 | 40 - 49 | 50 - 59 | 60 - 69 | 70 - 79 | 80 - 89 |
|------------------|---------|---------|---------|---------|---------|---------|
| No. of workers   | 23      | 13      | 7       | 27      | 14      | 17      |

(i) ₹ 61.15 (ii) ₹ 60.15 (iii) ₹ 59.16 (iv) ₹ 59.15

A frequency distribution table is given below.

5. Find the mean .

|                       |       |        |         |         |         |         |
|-----------------------|-------|--------|---------|---------|---------|---------|
| <b>Class-Interval</b> | 2 - 7 | 8 - 13 | 14 - 19 | 20 - 25 | 26 - 31 | 32 - 37 |
| <b>Frequency</b>      | 42    | 10     | 18      | 32      | 36      | 41      |

- (i)  $\frac{7503}{358}$  (ii)  $\frac{7861}{358}$  (iii)  $\frac{3752}{179}$  (iv)  $\frac{8219}{358}$  (v)  $\frac{7505}{358}$
- 

A frequency distribution table is given below.

Find the mean .

6.

|                       |         |         |         |         |         |         |         |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|
| <b>Class-Interval</b> | 12 - 18 | 18 - 24 | 24 - 30 | 30 - 36 | 36 - 42 | 42 - 48 | 48 - 54 |
| <b>Frequency</b>      | 18      | 13      | 39      | 39      | 41      | 5       | 35      |

- (i)  $\frac{3341}{95}$  (ii)  $\frac{3248}{95}$  (iii)  $\frac{3436}{95}$  (iv)  $\frac{3246}{95}$  (v)  $\frac{3247}{95}$
- 

The following frequency distribution table gives

the monthly consumption of electricity of 86 consumers in a locality.

7. Find the mean units.

|                                       |         |         |          |           |           |           |
|---------------------------------------|---------|---------|----------|-----------|-----------|-----------|
| <b>Monthly consumption (in units)</b> | 73 - 83 | 83 - 93 | 93 - 103 | 103 - 113 | 113 - 123 | 123 - 133 |
| <b>No. of consumers</b>               | 14      | 14      | 10       | 18        | 10        | 20        |

- (i)  $\frac{4537}{43}$  units (ii)  $\frac{4496}{43}$  units (iii)  $\frac{4494}{43}$  units (iv)  $\frac{4580}{43}$  units (v)  $\frac{4495}{43}$  units
-

## Assignment Key

---

- 1) (iii)
- 2) (iv)
- 3) (iv)
- 4) (iv)
- 5) (i)
- 6) (iv)
- 7) (iii)