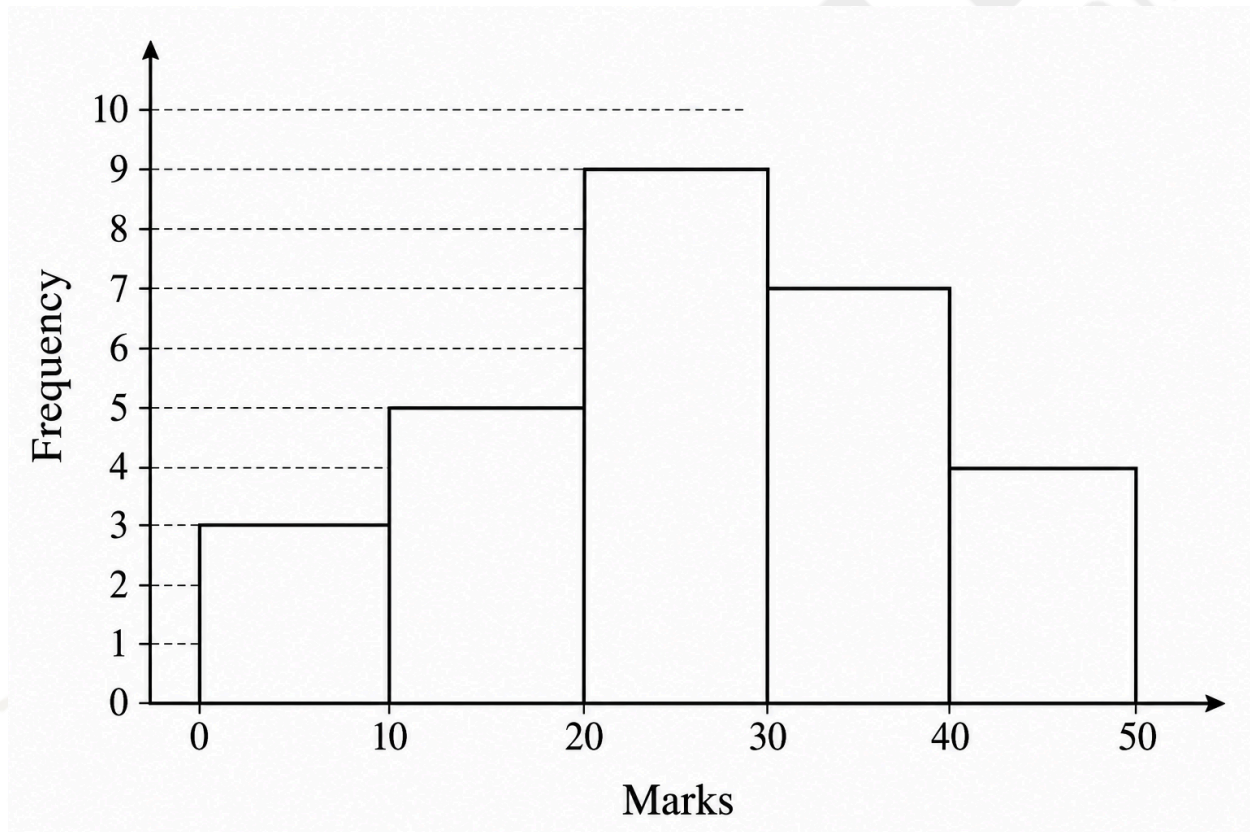


## Class 10 Mathematics - Statistics

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Advanced Worksheet 2



### Questions

1. Identify the modal class from the histogram.
2. If the modal class is 20–30, find:  
l, h,  $f_1$ ,  $f_0$ ,  $f_2$ .
3. Using the mode formula, calculate the mode.

4. What does the mode represent?
5. Distinguish between mean and mode.
6. Can grouped data have more than one mode?

**Answer Key**

1. 20–30
- 2.

$$l = 20$$

$$h = 10$$

$$f_1 = 9$$

$$f_0 = 5$$

$$f_2 = 7$$

- 3.

$$\text{Mode} = l + \left[ \frac{(f_1 - f_0)}{(2f_1 - f_0 - f_2)} \right] \times h$$

$$\text{Mode} = 25$$

4. The most frequently occurring value.
5. Mean is the average; Mode is the most frequent value.
6. Yes.