

Boost Free Lessons - Year 7 Maths

Lesson 20: The Mean and Mode

Name: _____ Grade: _____ Date: _____

Worked Example 1

Find the mean of 4, 7, 9, 12 and 8.

1. The mean is the total of the values divided by how many values there are.
2. Add them up: $4 + 7 + 9 + 12 + 8 = 40$.
3. Count them: there are 5 values.
4. Divide: $40 \div 5$.

Mean = 8

Worked Example 2

Find the mode of 3, 7, 5, 7, 2, 7 and 5.

1. The mode is the value that appears most often.
2. Count each one: 3 appears once, 5 appears twice, 2 appears once, 7 appears three times.
3. 7 appears more often than any other value.

Mode = 7

Remember: Mean = total $\div$ number of values. Mode = the most common value. A data set can have two modes, or none at all.



Question 1: Find the mean of each data set.

1. 2, 4, 6

2. 5, 10, 15, 20

3. 3, 3, 6, 8

4. 12, 18, 24

5. 1, 4, 4, 7, 9

6. 10, 20, 30, 40, 50

7. 6, 8, 11, 15

8. 2.5, 3.5, 4, 6



Question 2: Answer the following questions.

1. Find the mode of 4, 5, 5, 6, 9.

2. Find the mode of 1, 2, 2, 3, 3, 3.

3. Find the mode of 8, 8, 9, 9, 10.

4. Find the mode of 7, 4, 2, 9, 1.

5. Find the mean and the mode of 6, 6, 7, 9, 12.

6. Find the mean and the mode of 15, 20, 15, 25, 15.





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Answers : The Mean and Mode**Question 1**

- | | |
|---------|-------|
| 1. 4 | 5. 5 |
| 2. 12.5 | 6. 30 |
| 3. 5 | 7. 10 |
| 4. 18 | 8. 4 |

Question 2

- | | |
|----------------------|---------------------------------------|
| 1. 5 | 4. No mode (every value appears once) |
| 2. 3 | 5. Mean = 8, mode = 6 |
| 3. 8 and 9 (bimodal) | 6. Mean = 18, mode = 15 |

Question 3

1. 85
2. Size 8
3. 60
4. 157 cm
5. $x = 15$

