Finding and using the mode

6 questions | 8 marks

Equivalent correct methods earn the corresponding marks.

1. Find the mode of 1, 2, 2, 2, 5. [1 mark]

2 occurs three times; the other values occur once.

Answer: 2.

2. Find the modes of 6, 4, 6, 4, 9. [1 mark]

Both 4 and 6 occur twice; 9 occurs once.

Answer: 4 and 6.

3. Find the mode of 2, 4, 7, 9, using this lesson's convention. [1 mark]

Each value occurs once; none is more frequent.

Answer: No mode.

4. Which fruit is the mode in the supplied table? [1 mark]

One vote from each of 20 fictional students

Fruit	Votes
Apples	8
Bananas	6
Oranges	4
Pears	2

Apples have the largest frequency: 8 votes.

Answer: Apples.

5. A list is 5, 5, 5, 8, 9. Another 9 is added. Does its mode change? [2 marks]

5 still occurs three times.

9 now occurs twice, so it is not most frequent.

Answer: No; the mode remains 5.

6. A shop sells 6 small, 10 medium and 4 large hats. Which size is the mode? Did everyone choose it? [2 marks]

Medium has the most sales.

6 + 4 = 10 sales were not medium.

Answer: Medium. No: 10 hats sold were other sizes.