Describing data distributions

6 questions | 9 marks

Equivalent correct methods earn the corresponding marks.

1. Using the supplied pet table, which number of pets is least common? [1 mark]

Practice data: pets owned by 12 children

Number of pets	Number of children
0	3
1	5
2	3
3	1

Only one child has 3 pets.

Answer: 3 pets.

2. How many children are represented in the pet table? [1 mark]

Practice data: pets owned by 12 children

Number of pets	Number of children
0	3
1	5
2	3
3	1

$3 + 5 + 3 + 1 = 12$.

Answer: 12 children.

3. Which value is most common in 2, 3, 3, 3, 4, 5? [1 mark]

It appears three times.

Answer: 3.

4. Describe the values recorded in 4, 4, 5, 5, 5, 6. [2 marks]

5 appears three times;4 appears twice and 6 once.

Answer: They run from 4 to 6 and are concentrated at 5.

5. Compare 2, 2, 3, 3, 4 with 0, 2, 3, 4, 6. Which list is more spread out? Explain. [2 marks]

It extends from 0 to 6, while the first extends only from 2 to 4.

Answer: The second list.

6. One child has 10 pets while most have 0, 1 or 2. Can you say that most children have 10 pets? Explain. [2 marks]

Describe the frequencies of the whole set.

Answer: No. 10 is an unusual value, not a common response.