60. How to identify the mode from a collection of data

Scenario Questions:

1. In a classroom, the number of pets owned by each student is as follows:

$$1, 2, 0, 2, 1, 3, 1, 0.$$

What is the mode of the number of pets owned?

2. A survey was conducted among a group of friends, asking them to share their favourite pizza toppings. The results were as follows: pepperoni, cheese, mushrooms, pepperoni, olives, mushrooms. What is the mode of the favourite pizza toppings?

3. A teacher recorded the number of siblings each student has. The data is as follows:

$$2, 0, 1, 2, 1, 1, 0, 0.$$

Determine the mode of the number of siblings among the students.

Scenario Questions:

4. A bookstore keeps track of the number of books sold per day. The results are shown in the table. What is the mode number of books sold per day?

5. If the books sold is directly linked to how many shoppers came each day, what is the mode day for shopping in the bookstore?

Day	Books Sold
Monday	10
Tuesday	15
Wednesday	10
Thursday	8
Friday	7

60. How to identify the mode from a collection of data

Scenario Questions:

6. Students were asked, to the nearest hour, how many hours did they study for an exam. The table shows the results. What is the modal interval for hours studied?

7. How many more people studied between 0 - 5 hours compared to 21 - 25 hours?

Hours Studied	Frequency
0 - 5	10
6 - 10	15
11 - 15	10
16 - 20	8
21 - 25	7

60. How to identify the mode from a collection of data

Scenario Questions: Answers

1. In a classroom, the number of pets owned by each student is as follows: 1, 2, 0, 2, 1, 3, 1, 0. What is the mode of the number of pets owned?

1. The mode is 1 as it appears 3 times.

2. A survey was conducted among a group of friends, asking them to share their favourite pizza toppings. The results were as follows: pepperoni, cheese, mushrooms, pepperoni, olives, mushrooms. What is the mode of the favourite pizza toppings?

2. The mode is both pepperoni and mushrooms as both appear twice: this is bi-modal

3. A teacher recorded the number of siblings each student has. The data is as follows: 2, 0, 1, 2, 1, 1, 0, 0. Determine the mode of the number of siblings among the students.

3. 0 and 1 are both the mode as they both appear twice - this is bi-modal

4. A bookstore keeps track of the number of books sold per day. The results are shown in the table. What is the mode number of books sold per day?

Day	Books Sold
Monday	10
Tuesday	15
Wednesday	10
Thursday	8
Friday	7

4. The mode is 10 books

5. If the books sold is directly linked to how many shoppers came each day, what is the mode day for shopping in the bookstore?

5. The mode day for shopping is Tuesday

6. Students were asked, to the nearest hour, how many hours did they study for an exam. The table shows the results. What is the modal interval for hours studied?

Hours Studied	Frequency
0 - 5	10
6 - 10	15
11 - 15	10
16 - 20	8
21 - 25	7

6. The modal interval is 6 - 10 hours.

7. How many more people studied between 0 - 5 hours compared to 21 - 25 hours?

7. 3 more people