

61. How to identify the median 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 median of the number of pets owned?

2. A survey was conducted among a group of friends, asking them what fraction of a 14 inch pizza they'd like to eat. The results were:

$\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{3}$, $\frac{3}{4}$, $\frac{3}{4}$, $\frac{2}{3}$, $\frac{5}{6}$.

What is the median amount of pizza?

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

2, 0, 1, 2, 1, 0, 0, 0

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

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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 median number of books sold per day?

5. Is it possible to have a median day of the week?

Day	Books Sold
Monday	10
Tuesday	15
Wednesday	10
Thursday	8
Friday	1

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Scenario Questions:

6. Students were asked, to the nearest hour, how many hours did they study for an exam. The table shows the results. Within what interval is the median number of hours studied?

7. In what interval does the 40th person exist when the students are placed in order of least hours studied to most hours studied?

Hours Studied	Frequency
0 - 5	3
6 - 10	25
11 - 15	7
16 - 20	10
21 - 25	5

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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 median of the number of pets owned?

1. The median is 1. When in size order the numbers are 0, 0, 1, 1, 2, 2, 3

2. A survey was conducted among a group of friends, asking them what fraction of a 14 inch pizza they'd like to eat. The results were as follows: $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{3}$, $\frac{3}{4}$, $\frac{3}{4}$, $\frac{2}{3}$, $\frac{5}{6}$. What is the median amount of pizza?

2. The median is $\frac{2}{3}$. When in size order the numbers are $\frac{1}{4}$, $\frac{1}{3}$, $\frac{1}{2}$, $\frac{2}{3}$, $\frac{3}{4}$, $\frac{3}{4}$, $\frac{5}{6}$

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

3. The median is 0.5. When in size order the numbers are 0, 0, 0, 0, 1, 1, 2, 2

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

4. The median is 10 books: 7, 8, 10, 10, 15

5. Is it possible to have a median day of the week?

5. No, because there is no size order to the days of the week

6. Students were asked, to the nearest hour, how many hours did they study for an exam. The table shows the results. Within what interval is the median number of hours studied?

6. The median lies in interval is 6 - 10 hours.

7. In what interval does the 40th person exist when the students are placed in order of least hours studied to most hours studied?

7. The 40th person lies in interval 16 - 20

Day	Books Sold
Monday	10
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