



**THIRD SPACE  
LEARNING**

# How to find the Median from a Frequency Table Worksheet

Statistics and Probability

Grades 6 to 8

## Skill Questions

Name: .....

Date: .....

- 1 The frequency table shows the total number of pets of students in a class. Find the median number of pets.

Number of pets	Frequency
0	5
1	11
2	7
3	3

Answer

- 2 The frequency table shows the number of goals scored in 20 soccer games. Find the median number of goals.

Goals	Frequency
0	12
1	12
2	1
4	1

Answer

- 3 The frequency table shows the total slices of pizza eaten by each student at a class party. Find the median pieces of pizza.

Pieces of pizza	Frequency
1	15
2	19
3	24
4	4

Answer

## How to find the Median from a Frequency Table Worksheet | Grades 6 to 8

- 4 The frequency table shows a sample of the total number of apples in a 10 pound bag at the grocery store. Find the median number of apples.

Number of apples	Frequency
11	3
12	31
13	24
14	40
15	15

Answer

- 5 The frequency table shows a sample of the total number of items customers bought at a dollar store. Find the median number of items.

Number of items	Frequency
1	6
2	5
3	1
4	2
5	16

Answer

- 6 The table shows the grouped data about the scores in 35 games. State the modal class interval.

Scores	Frequency
0 to 9	2
10 to 19	12
20 to 29	13
30 to 39	8

Answer

## How to find the Median from a Frequency Table Worksheet | Grades 6 to 8

- 7 The table shows the grouped data about the height of 200 trees in a forest. State the median interval.

Height ( $h$ meters)	Frequency
$0 < h \leq 5$	22
$5 < h \leq 10$	12
$10 < h \leq 15$	46
$15 < h \leq 20$	48
$20 < h \leq 25$	62
$25 < h \leq 30$	10

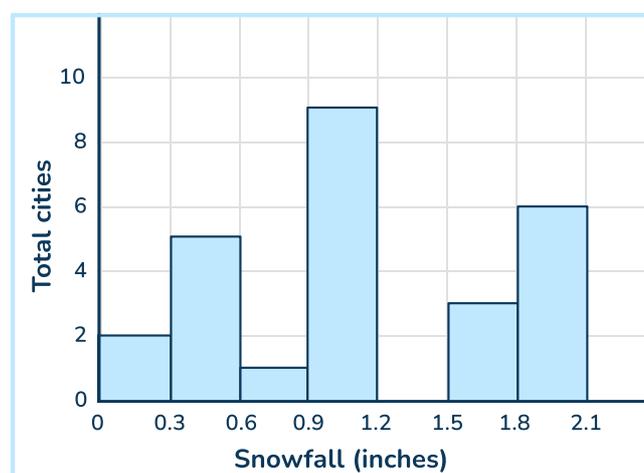
Answer

- 8 The table shows the grouped data about the number of siblings students have. State the median interval.

Siblings	Frequency
0 to 1	27
2 to 3	34
4 to 5	5
6 to 7	1

Answer

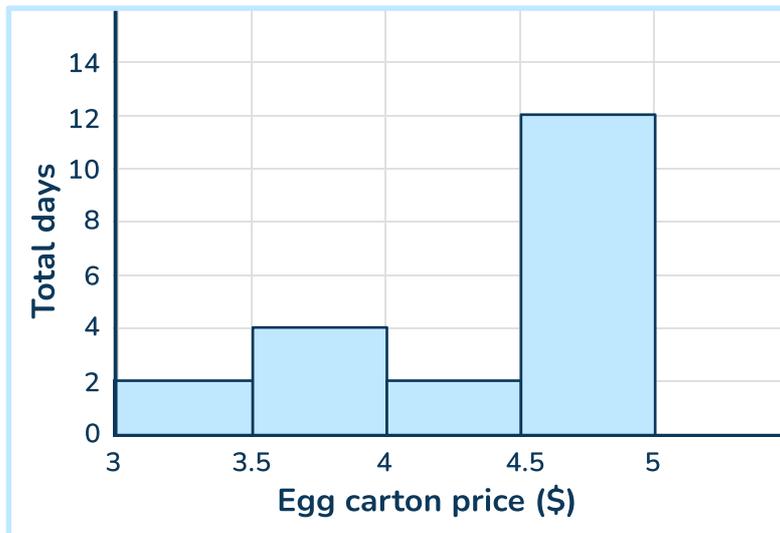
- 9 The histogram below shows the total snowfall for a group of cities. State the median class for the histogram.



Answer

## How to find the Median from a Frequency Table Worksheet | Grades 6 to 8

- 10 The histogram below shows the price for a carton of eggs for a sample of days. State the median class for the histogram.



Answer

Answer

## Applied Questions

- 11 The table shows the grouped data about the height of 200 trees in a forest.

Height ( $h$ meters)	Frequency
$0 < h \leq 5$	22
$5 < h \leq 10$	12
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$25 < h \leq 30$	10

If the data was regrouped into new classes (by the colors shown), what would the new median class be? Explain.

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12

Minutes	Frequency
40 - 54	11
55 - 59	4
60 - 74	6
75 - 89	4

Jessie says “The median is 57 minutes.”

Do you agree? Why or why not?

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## How to find the Median from a Frequency Table Worksheet | Grades 6 to 8

- 13 Samuel says “The median class can never be in the first group in a frequency table.”

Do you agree? Why or why not?

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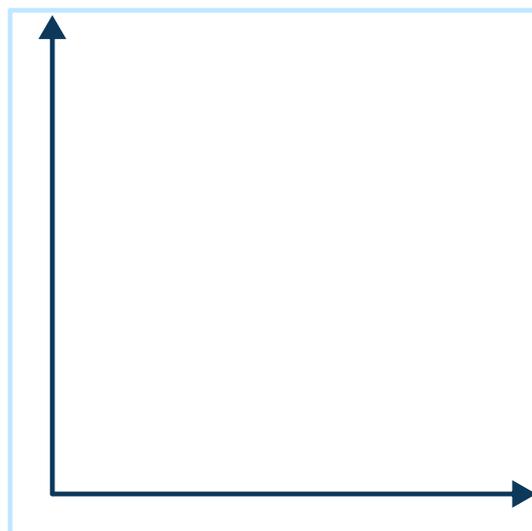
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- 14 The table shows the grouped data about the height of trees in a forest. If the median class is 52 – 58, what is the minimum possible frequency in 52 – 58?

Height ( $h$ meters)	Frequency
34 - 39	32
40 - 45	67
46 - 51	51
52 - 58	?
59 - 65	57

Answer

- 15 Create a histogram that has a median class of 2.5 – 3. Label the units on both axes. Then explain how you did it.



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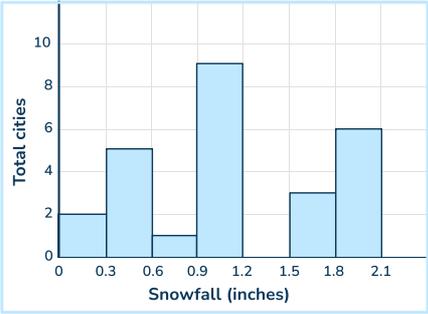
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## Answers

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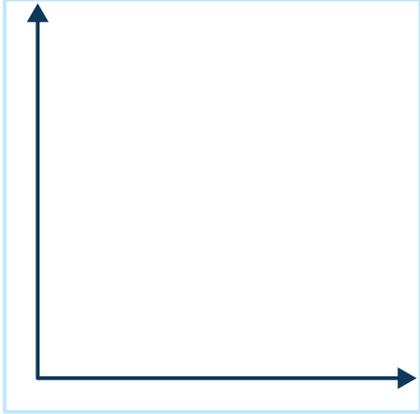
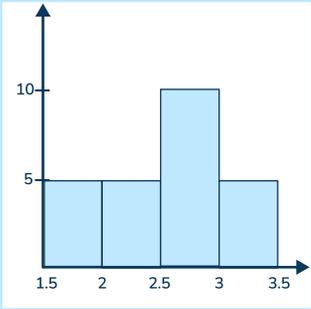
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10	<p>The histogram below shows the price for a carton of eggs for a sample of days. State the median class for the histogram.</p> 	\$4.50 – \$5.00	6.SP.A.3														
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Minutes	Frequency														
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13	<p>Samuel says “The median class can never be in the first group in a frequency table.”</p> <p>Do you agree? Why or why not?</p>	<p><i>Explanations will vary.</i></p> <p>Example answer: No, Samuel is wrong. While it may not be common, if more than half the data is in the first class, that is where the median will be.</p>	6.SP.A.3												
14	<p>The table shows the grouped data about the height of trees in a forest. If the median class is 52 – 58, what is the minimum possible frequency in 52 – 58?</p> <table border="1" data-bbox="344 1606 866 1904"> <thead> <tr> <th>Height (<math>h</math> meters)</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>34 - 39</td> <td>32</td> </tr> <tr> <td>40 - 45</td> <td>67</td> </tr> <tr> <td>46 - 51</td> <td>51</td> </tr> <tr> <td>52 - 58</td> <td>?</td> </tr> <tr> <td>59 - 65</td> <td>57</td> </tr> </tbody> </table>	Height ( $h$ meters)	Frequency	34 - 39	32	40 - 45	67	46 - 51	51	52 - 58	?	59 - 65	57	94	6.SP.A.3
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15	<p>Create a histogram that has a median class of 2.5 – 3. Label the units on both axes. Then explain how you did it.</p> 	<p>Answers will vary.</p> <p>Example answer:</p>  <p>I created a graph that had 25 data points. This means the median data point is between 12 and 13, so I made that point part of the 2.5–3 bin.</p>	6.SP.A.3

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