April 26, 2017

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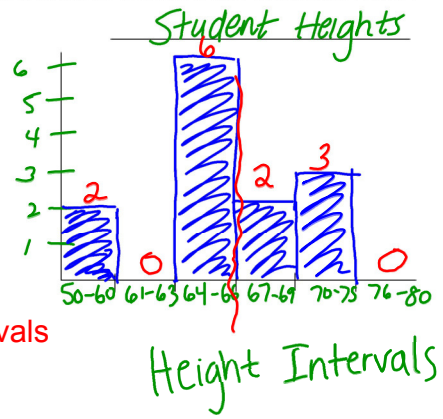
Create a table listing the number of students that fall into a particular range of heights.

Height Interval in Inches	Frequency (Number of Students)
50-60	2
61-63	0
64-66	6
67-69	2
70-75	3

Use these intervals



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1. What interval of heights occurs the most often? 64-66
2. What interval of heights occurs the least often? 61-63 & 76-80
3. What is the range for the histogram? 15
4. What heights are outliers? there are none
5. How would the histogram differ if it were just boys? it does not change
6. How would the histogram differ if it were just girls? there would be little data
7. How many students in our class are more than 66 inches? 5
8. How many students in our class are less than 64 inches? 2

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Histograms: A graphical display of data that is grouped into intervals or ranges using bars of different heights.

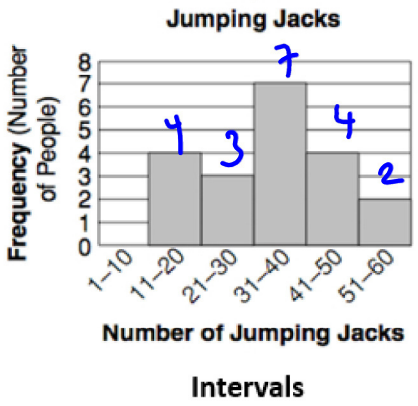
Example 1: The histogram below shows the number of jumping jacks completed by participants in a contest

a) How many people did 31-50 jumping jacks? 11

b) How many people did less than 31 jumping jacks? 7

c) How many people did more than 40 jumping jacks? 6

d) Which Interval of Number of Jumping Jacks had 3 people? 21-30



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Example 2: Twenty students were surveyed about the number of days they played outside in one week. The results of this survey are shown in table below.

Interval of # of Days	Frequency
0-1	3
2-3	6
4-5	8
6-7	3

a) Use the table to create a histogram

b) How many students played outside less than 2 days a week? 3

c) How many students played outside more than 3 days a week? 11

d) Identify the interval of number of days that had the highest frequency. 4-5