

## Frequency tables, HW examples

Does the frequency distribution appear to have a normal distribution using a strict interpretation of the relevant criteria?

Temperature (°F)	Frequency	Temperature (°F)	Frequency
35-39	1	55-59	9
40-44	0	60-64	6
45-49	5	65-69	1
50-54	13		

Does the frequency distribution appear to have a normal distribution?

- A. Yes, all the requirements are met.  
 B. No, the distribution does not appear to be normal.  
 C. No, the frequencies do not decrease from the maximum frequency to a low frequency.


The data represents the body mass index (BMI) values for 20 females. Construct a frequency distribution beginning with a lower class limit of 15.0 and use a class width of 6.0.

17.7 33.5 26.8 21.8 25.9  
 27.3 21.1 18.3 29.7 22.7  
 19.2 21.6 24.3 37.7 41.2  
 27.8 44.9 31.8 28.1 24.1

Note: open excel and sort the data.

Body Mass Index	Frequency	Body Mass Index	Frequency
15.0-20.9	<input type="text"/>	33.0-38.9	<input type="text"/>
21.0-26.9	<input type="text"/>	39.0-44.9	<input type="text"/>
27.0-32.9	<input type="text"/>		

Refer to the accompanying data set and use the 30 screw lengths to construct a frequency distribution. Begin with a lower class limit of 2.720 in., and use a class width of 0.010 in. The screws were labeled as having a length of  $2 \frac{3}{4}$  in.

 Click on icon to view the data.

Complete the frequency distribution below.

Length (in.)	Frequency
2.720 - 2.729	4
2.730 - 2.739	4
2.740 - 2.749	9
2.750 - 2.759	10
2.760 - 2.769	3

(Type integers or decimals rounded to the nearest thousandth as needed.)