

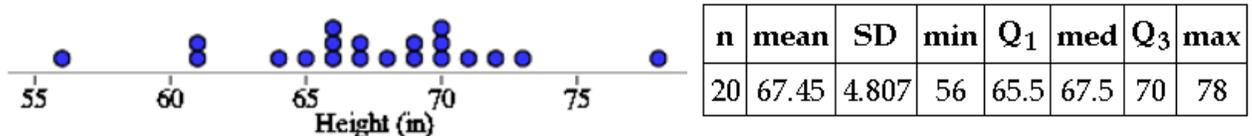
Name: _____ Hour: _____



Where do I stand?

How does my height compare with other AP Stats students?

The dotplot below represents a random sample of the heights of 20 AP Stats students to the nearest inch.

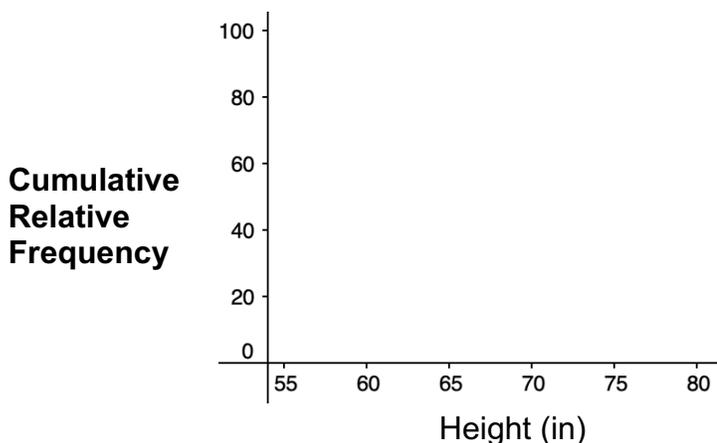


- Describe the distribution.
- Arianna is 65 inches tall. What percent of the heights are less than or equal to 65?
 - What is your height? _____ What percent of the heights are less than or equal to your height?

- Complete the table.

Height	Frequency	Relative Frequency	Cumulative Relative Freq.
56-60			
61-65			
66-70			
71-75			
76-80			

- Use the info in the table to create a **cumulative relative frequency** graph.



- Mrs. Gallas is 66 inches tall. Estimate and interpret the percentile she is at using the graph.
- Estimate and interpret the 80th percentile.

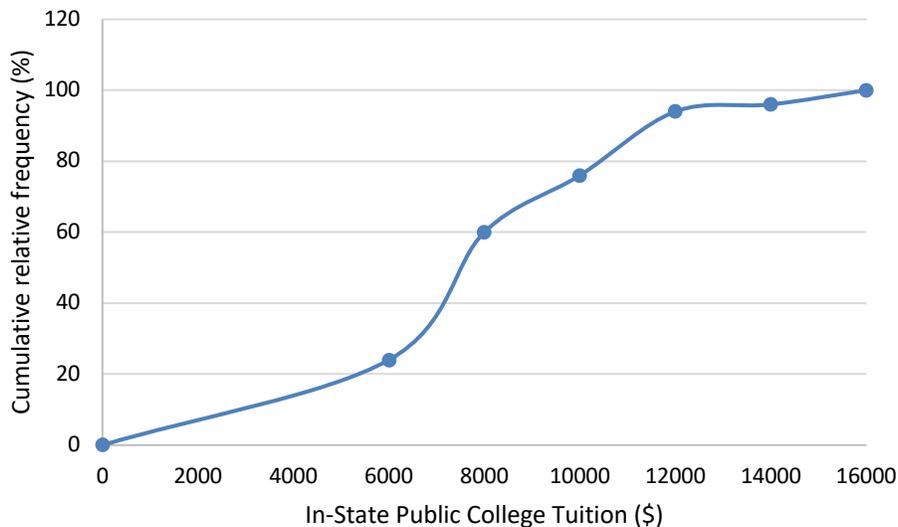
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Describing Location in a Distribution

Important Ideas:

Check Your Understanding:

1. According to a 2019 article at Insider.com, the state of Pennsylvania was at the 82nd percentile for Pre-K to 12th grade education and was at the 0th percentile for higher education. Explain what these values mean.
2. The graph displays the cumulative relative frequency of the cost of in-state public college education for each of the 50 states.



- a. About what percent of states have in-state public college tuition less than or equal to \$8000? More than \$8000?
- b. Estimate Q_1 , Q_3 , and the *IQR* of the distribution of phone in-state public tuition.