

**3.5 Mean, Median, and Mode**  
**Calculating your Reaction Time**

Use the chart below to record your own reaction times. Follow prompts A-D on page 108 of your math textbook.

| <u>Attempts</u> | <u>Reaction time (cm)</u> |
|-----------------|---------------------------|
| 1               |                           |
| 2               |                           |
| 3               |                           |
| 4               |                           |
| 5               |                           |
| 6               |                           |
| 7               |                           |
| 8               |                           |
| 9               |                           |
| 10              |                           |

E. Determine the mean median and mode of your reaction times from the table above.

Reorder your measurements from least to greatest

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| <u>Mean</u> | <u>Median</u> | <u>Mode</u> |
|-------------|---------------|-------------|
|             |               |             |

F. Looking at your reaction times in the first chart above, remove the lowest measurement and recalculate the mean, median and mode without the lowest measurement.

Reorder your measurements from least to greatest (Remember, leave out the lowest measurement)

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| <u>Mean</u> | <u>Median</u> | <u>Mode</u> |
|-------------|---------------|-------------|
|             |               |             |

G. Looking at your reaction times in the first chart above, remove the highest measurement and recalculate the mean, median and mode without the highest measurement.

Reorder your measurements from least to greatest (Remember, leave out the highest measurement)

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| <u>Mean</u> | <u>Median</u> | <u>Mode</u> |
|-------------|---------------|-------------|
|             |               |             |

H. Looking at your reaction times in the first chart above, remove both the lowest and highest measurement and recalculate the mean, median and mode without the lowest and highest measurement.

Reorder your measurements from least to greatest (Remember, leave out the lowest and highest measurement)

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| <u>Mean</u> | <u>Median</u> | <u>Mode</u> |
|-------------|---------------|-------------|
|             |               |             |

Answer the following questions.

1. In steps E-H, was the mean, the median, or the mode affected more by leaving out the least and greatest measurements? Why?

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2. Was the mean, the median or the mode a better indicator of your reaction time? Justify your answer.

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