

## Agenda

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- What is Statistics?

### ➤ Central Tendency Measures

- Dispersion Measures
- Data Distributions



## The “Average” Story

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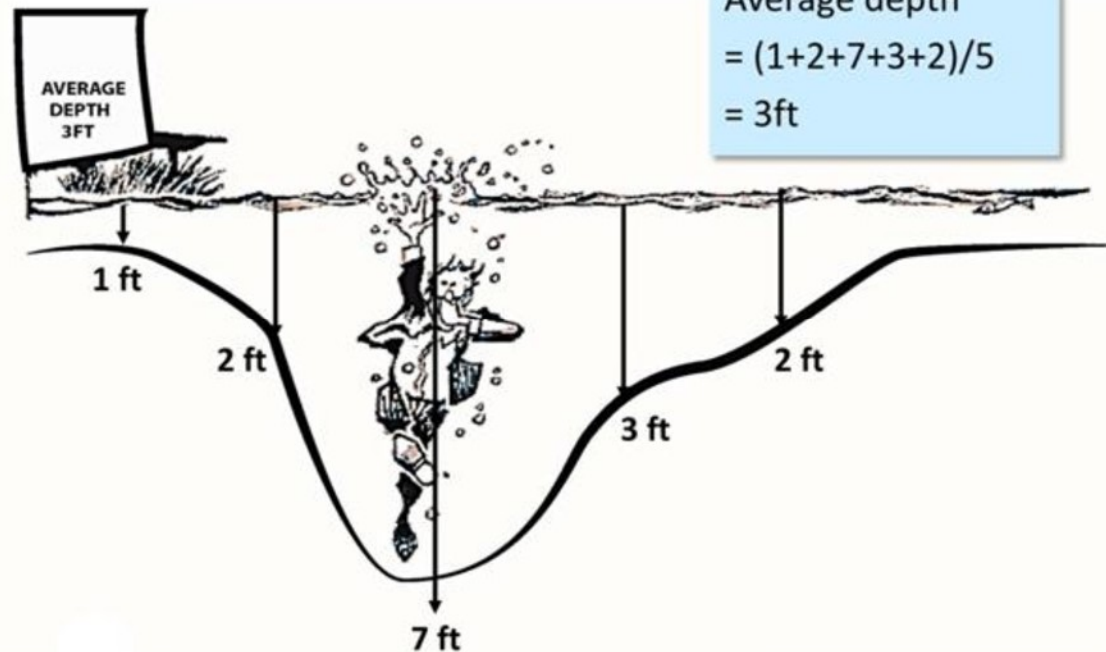
Alan went for a trek. On the way, he had to cross a stream. As Alan did not know swimming, he started exploring alternate routes to cross over.

Suddenly he saw a sign-post, which said “Average depth 3 feet”. Alan was 5’7” tall and thought he could safely cross the stream.

Alan never reached the other end and drowned in the stream.



## did Alan Drown?



**Beware of Averages!!!**

## Central Tendency

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A measure of **Central Tendency** is a single value that attempts to describe a set of data **by identifying the central position** within that set of data. In other words, the Central Tendency computes the “center” around which the data is distributed.

The three measures of Central Tendency are:

- Mean
- Median
- Mode