

## Mean

## Math Monday \#1

Treatment of tomato plants with a growth hormone yielded the following weights of tomatoes: $104 \mathrm{~g}, 82 \mathrm{~g}, 121 \mathrm{~g}, 96 \mathrm{~g}, 108 \mathrm{~g}$, 73 g . What is the average weight of a tomato after treatment?

$$
\mathrm{n}=6
$$

Mean


$$
\bar{x}=\frac{1}{6} \sum_{i=1}^{6} x_{i}
$$

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$$
\begin{gathered}
\bar{x}=\frac{1}{6} \sum_{i=1}^{6} x_{i} \\
\bar{x}=\frac{1}{6}(104+82+121+96+108+73) \\
\bar{x}=\frac{1}{6}(584) \\
\bar{x}=97.3
\end{gathered}
$$

# Button: "STAT" <br> Select Edit $\rightarrow$ 1:Edit Button: "ENTER" 

Under L1, enter the values
Quit back to main screen by: Button " 2 nd" then "MODE"
Button: "STAT"
Select Calc $\rightarrow$ 1: 1-Var Stats
Button: "ENTER"
Button: "ENTER"

The mean is the $\bar{x}$

## Example Problem

Initial mass of pumpkin cores was measured in grams. What is the average initial mass for the pumpkin cores? Round to the nearest hundredth.
$29.15,28.45,30.92,29.25,32.09,31.67$


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Initial mass of pumpkin cores was measured in grams. What is the average initial mass for the pumpkin cores? Round to the nearest hundredth.

$$
\begin{gathered}
\text { 29.15, 28.45, 30.92, 29.25, 32.09, 31.67 } \\
\mathrm{n}=6 \\
\bar{x}=\frac{1}{6} \sum_{i=1}^{6} x_{i} \\
\bar{x}=\frac{1}{6}(29.15+28.45+30.92+29.25+32.09+31.67) \\
\bar{x}=\frac{1}{6}(181.53) \\
\bar{x}=30.255=30.26
\end{gathered}
$$

