



Math Monday #2



Treatment of tomato plants with a growth hormone yielded the following weights of tomatoes: 104 g, 82 g, 121 g, 96 g, 108 g, 73 g. What is the standard error of the mean of a tomato after treatment?

n = 6s = 17.59



$$SE_{\bar{x}} = \frac{17.59}{\sqrt{6}}$$

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Standard Error

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n = 6s = 17.59

$$SE_{\bar{x}} = \frac{17.59}{\sqrt{6}}$$
$$SE_{\bar{x}} = \frac{17.59}{20.000}$$

2.449

$$SE_{\bar{x}} = 7.18$$

Example Problem



Initial mass of pumpkin cores was measured in grams. What is the standard error of the mean for the pumpkin cores? Round to the nearest hundredth.

29.15, 28.45, 30.92, 29.25, 32.09, 31.67



Example Problem

Standard Error

Initial mass of pumpkin cores was measured in grams. What is the standard error of the mean for the pumpkin cores? Round to the nearest hundredth.

29.15, 28.45, 30.92, 29.25, 32.09, 31.67

n = 6s = 1.50

$$SE_{\bar{x}} = \frac{1.50}{\sqrt{6}}$$

 $SE_{\bar{x}} = \frac{1.50}{2.449}$

 $SE_{\bar{x}} = 0.612 = 0.61$