

3 Steps to find a confidence interval.

1) Find standard deviation of the sampling distribution. (Standard error of the mean = 0)

$$\sqrt{x} = \frac{5}{\sqrt{n}} = \frac{5}{\sqrt{n}} \leftarrow \text{if } n \ge 30$$

- 2) Find margin of error (E)

 E = Z · Oz Z is based on

 lo confident
- 3) Find conf. interval

 X = E

Mean weight of 36 h.s. wrestlers is 136.4 lb.

Standard dev = 14.1 lb. Find a 90% conf. interval.

for the mean weight if all h.s. wrestlers.

1) Find standard error of the mean.

$$O_{\overline{\chi}} = \frac{S}{Vn} = \frac{14.1}{\sqrt{36}} \approx 2.35$$

2) Find margin of error.

3) RTE 136.4 = 3.88 lb.

We 90% conf. the mean weight of all h.s. wrestlers falls in this interval

Sample Size
$$G_{\overline{x}} = \frac{G}{Vn}$$
 $E = Z \cdot G_{\overline{x}} = \frac{F}{Vn} \cdot Vn$

Sample bound margin pop $Vn \cdot G_{\overline{x}} = G$

What sample six if:

 $1 = \frac{G}{Vn} \cdot Vn \cdot G_{\overline{x}} = G$

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