

# Biometry - Alex 10 - Solutions.

$$\textcircled{1} \quad \bar{x} = 5.233, \quad s^2 = 0.02267, \quad s = 0.15055$$

$$5.233 \pm 3.365 \frac{0.15055}{\sqrt{6}}$$

$$5.026 \leq \mu \leq 5.44 \quad (98\% \text{ confidence}).$$

$$\textcircled{2} \quad \bar{x} = 64.25, \quad s^2 = 6.5, \quad s = 2.55$$

$$64.25 \pm 2.365 \frac{2.55}{\sqrt{8}}$$

$$62.13 \leq \mu \leq 66.37 \text{ in } (95\% \text{ confidence}).$$

Cannot claim that the height has changed since the old height of 63 in. is still in the interval.

