

## Unit 1 Practice Questions – Solutions

1. (a)  $n = \left( \frac{z^* \sigma}{m} \right)^2 = \left( \frac{2.054(6.7)}{4} \right)^2 = 11.84 \approx 12$

(b)  $n = \left( \frac{z^* \sigma}{m} \right)^2 = \left( \frac{2.054(6.7)}{1} \right)^2 = 189.39 \approx 190$

(c) If we decrease the margin of error by a factor of  $k$ , we require  $k^2$  times the original sample size. In this case, we reduced the margin of error by a factor of 4, so we need  $4^2 = 16$  times the original sample size. (Note that if you divide the answer for (b) by the answer for (a), you won't get exactly 16. This is because we had to round the answer up to the next highest integer.)

(d) When we wanted to **decrease** the margin of error by a factor of  $k$ , we required  $k^2$  times more individuals in our sample. Therefore, if we want to **increase** the margin of error by a factor of  $k$ , we need  $k^2$  times **fewer** individuals. Here, since we are increasing the margin of error from 4 to 6,  $k = 6/4 = 1.5$ . Therefore, if we want to estimate the true mean height of all trees to within 6 feet with 96% confidence, we would need to divide the answer for (a) by  $(1.5)^2 = 2.25$ . Equivalently, we would have to multiply the answer for (a) by  $1/2.25 = 0.44$ .

(e)  $n = \left( \frac{z^* \sigma}{m} \right)^2 = \left( \frac{1.645(6.7)}{4} \right)^2 = 7.59 \approx 8$

(f) Comparing the answers for (a) and (e), we see that, if we decrease the confidence level, the required sample size is also decreased.

2. (a) We are testing the hypotheses  $H_0: \mu = 100$  vs.  $H_a: \mu > 100$  at the 1% level of significance.

We will reject  $H_0$  if

$$Z = \frac{\bar{X} - \mu_0}{\sigma/\sqrt{n}} \geq z^* \Rightarrow \bar{X} \geq \mu_0 + z^* \left( \frac{\sigma}{\sqrt{n}} \right) = 100 + 2.326 \left( \frac{15.4}{\sqrt{37}} \right) = 105.8888$$

(b)  $\text{Power} = P(\text{Reject } H_0 \mid H_a \text{ true})$

$$= P(\bar{X} \geq 105.8888 \mid \mu = 110) = P\left(Z \geq \frac{105.8888 - 110}{15.4/\sqrt{37}}\right) = P(Z \geq -1.62)$$

$$= 1 - P(Z < -1.62) = 1 - 0.0526 = 0.9474$$

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