

(I will add more questions as we study more from this chapter. I will add two more questions next week.)

You may need this information for 2-b question.

Sampling Distribution	Sample Proportions from Population 1	Sample Proportions from Population 2	All Differences in Sample Proportions from the two Populations
Mean	p_1	p_2	$p_1 - p_2$
Standard Error	$\sqrt{\frac{p_1(1-p_1)}{n_1}}$	$\sqrt{\frac{p_2(1-p_2)}{n_2}}$	$\sqrt{\frac{p_1(1-p_1)}{n_1} + \frac{p_2(1-p_2)}{n_2}}$
Conditions for Use of a Normal Model	$n_1 p_1 \geq 10$ and $n_1(1-p_1) \geq 10$ In sample from Population 1, expected successes and failures at least 10	$n_2 p_2 \geq 10$ and $n_2(1-p_2) \geq 10$ In sample from Population 2, expected successes and failures at least 10	$n_1 p_1 \geq 10$ and $n_1(1-p_1) \geq 10$ $n_2 p_2 \geq 10$ and $n_2(1-p_2) \geq 10$ expected successes and failures in BOTH samples at least 10