NAME THAT TEST ANSWERS:

1. 2 proportion z-test $z=\frac{\hat{p\_{1}}-\hat{p\_{2}}-(p\_{1}-p\_{2})}{\sqrt{p\left(1-p\right)(\frac{1}{n\_{1}}+\frac{1}{n\_{2}})}}$
2. Linear Regression t-test $t=\frac{b}{SE\_{b}}$
3. 1-proportion z-interval $\hat{p}\pm z\*\sqrt{\frac{\hat{p}(1-\hat{p})}{n}}$
4. T-interval $\overbar{x}\pm t\*\frac{s}{\sqrt{n}}$
5. 2 sample t-test $ t=\frac{( \overbar{x}\_{1}- \overbar{x}\_{2})-(μ\_{1}-μ\_{2})}{\sqrt{\frac{s\_{1}^{2}}{n\_{1}}+\frac{s\_{2}^{2}}{n\_{2}}}}$
6. Chi-Squared Goodness of Fit $Χ^{2}=\sum\_{}^{}\frac{(Obs-Exp)^{2}}{Exp}$
7. T-test (This should be a matched pair test) $t=\frac{\overbar{x}-μ}{\frac{s}{\sqrt{n}}}$