Basic Formulas you need to know. They will not be given to you:

$$Z = \frac{Value - Avg}{SD}$$

SD and Short-cut SD formulas

Probability Rules- multiplication and addition rules (including special cases of "at least one" and "not all)

EV and SE for sums, averages and percents for n draws from a box (page 14 of Study Guide)

$$Z = \frac{Value - EV}{SE}$$

Confidence Intervals using Z and t curves

Significance tests: 1 sample and 2 sample Z and t tests.

$$Z = \frac{Obs - Exp}{SE} \qquad t = \frac{Obs - Exp}{SE^{+}} \quad \text{where}$$

$$SE^{+} = \frac{SD^{+}}{\sqrt{n}} \text{ or you can use } \frac{SD}{\sqrt{n-1}} \text{ if you prefer, they're the same thing.}$$

$$SD^{+} = \sqrt{\frac{n}{n-1}} \times SD$$

Degrees of Freedom for t and χ^2 tests:

1 sample t test: n-1

 χ^2 goodness of fit test: # of categories -1

 χ^2 Independence test: (# of categories in Variable1 -1) x (# of categories in Variable2 -1)

Here's the only formula that will be given to you:

$$\chi^2 = \sum \frac{(\text{Obs} - \text{Exp})^2}{\text{Exp}}$$

Know how to use it for both types of χ^2 tests.