What is okay and what is not okay for your formula sheet.

Only write formulas on your sheets. You can write on both sides of an 8 ½ x 11 piece of paper.

**These are okay:**

\[ \sum_{i=1}^{n} (x_i - \bar{x})^2 \]

Variance: \[ V = \frac{1}{n-1} \sum_{i=1}^{n} (x_i - \bar{x})^2 \]

SD=\sqrt{\text{Variance}}

Standard error for the Mean: \[ \hat{\sigma}_f = \frac{sd}{\sqrt{n}} \]

\[ b = \frac{N \sum XY - (\sum X)(\sum Y)}{N \sum X^2 - (\sum X)^2} \]

CI = \[ X \mp C.V. \bullet \hat{\sigma}_f \]

Binomial Distribution: \[ P(r) = \frac{N!}{r!(N-r)!} p^r q^{N-r} \]

**These are not okay:**

1. The b coefficient indicates the slope between x and y.
2. The correlation coefficient, r=…, indicates the strength and direction of the relationship between x and y.
3. The confidence interval for the mean = \[ X \mp 1.96 \bullet \hat{\sigma}_f \] -- you will need to look up these confidence intervals from the appropriate tables during the exam.
4. \( e_i \) indicates …
5. The binomial distribution is used when you have small sample proportions…

You will hand in your sheet of formulas with the test.