$$\sigma^{2} = \frac{1}{N} \sum (x_{i} - \bar{x})^{2} \quad S_{x}^{2} = \frac{1}{n-1} \sum (x_{i} - \bar{x})^{2}$$

$$\bar{x} = \frac{1}{N} \sum x_{i} \quad \sigma = \sqrt{\frac{1}{N} \sum (x_{i} - \bar{x})^{2}} \quad X_{z}^{2} = \sum_{i=1}^{N} \frac{(0_{i} - e_{i})^{2}}{e_{i}} \quad A_{z}^{2}$$

$$S_{x} = \sqrt{\frac{1}{n-1}} \sum (x_{i} - \bar{x})^{2} \quad P(x = x_{i}) \quad P(x = x_{i}) \quad P(x = x_{i})$$

$$\hat{y} = \alpha + bx \quad \mu = nP$$

$$Z = x - \mu \quad \sigma = \sqrt{np(1-p)} \quad \mu = \frac{1}{n} \sum x_{i}$$

## **Mock AP Statistics Exam**

Winthrop University, Owens Go1 Saturday, May 3, 2025, 9 am -3 pm

The Department of Mathematics at Winthrop University is hosting a free mock exam experience in preparation for the national administration of the AP Statistics exam. A rough schedule of the day's event is:

- 9:00-9:30 Check-in at Owens G01
- 9:30-11:00 Free Response section
- 11:00-11:30 Break
- 11:30-1:00 Multiple Choice section
- 1:00-3:00 Lunch, scores, and discussion of free response questions

Register for the event by **Monday, April 28th** using this <u>link</u> or the QR code above. Questions? Contact Dr. Kristen Abernathy at abernathyk@winthrop.edu.

