

M110 CHAPTER 15 STATISTICS FORMULAS

MEAN

$$\bar{x} = \frac{\sum x}{n}$$

MEAN OF A FREQUENCY TABLE

$$\bar{x} = \frac{\sum (x \cdot f)}{n} \quad n = \sum f$$

STANDARD DEVIATION

$$s = \sqrt{\frac{\sum [(x - \bar{x})^2]}{n - 1}}$$

STANDARD DEVIATION OF A FREQUENCY TABLE

$$s = \sqrt{\frac{\sum [(x - \bar{x})^2 \cdot f]}{n - 1}} \quad n = \sum f$$

Z-SCORE

$$z = \frac{x - \bar{x}}{s} \quad \text{or} \quad \frac{x - \mu}{\sigma}$$