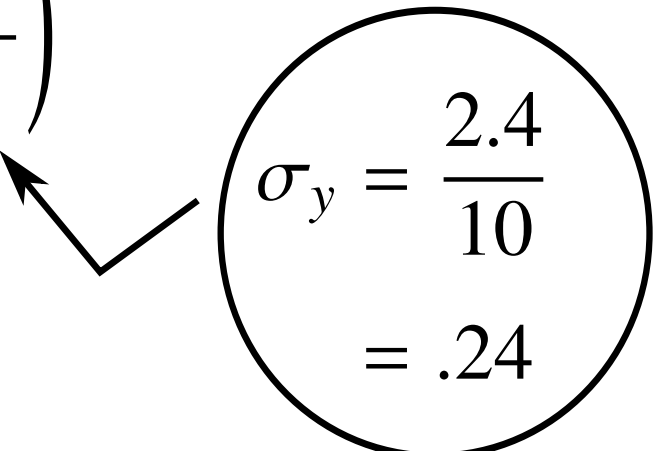$$Y \sim N\left(3.2, \frac{(2.4)^2}{100}\right)$$