Chapter 4 exercises

1) For the following sample, please compute its variance and st.d.

42, 7, 89, 15, 63, 28, 94, 3, 76, 51, 12, 68

$$\bar{X} = 45.7$$

$$S^2 = \frac{\Sigma(X_i - \bar{X})^2}{N - 1} = 1{,}061$$

$$S = \sqrt{\frac{\Sigma(X_i - \bar{X})^2}{N - 1}} = 32.6$$

2) Compute IQV for the following populations

Race	Springdale AR 2010 (%)	Springdale AR 2020 (%)
White (NH)	53	41
Black	2	2
Hispanics	35	40
Asians	2	2
Others	8	15
IQV	74%	81%