

Question #185

Key: A

$$\hat{H}(4.5) = \frac{2}{12} + \frac{1}{10} + \frac{2}{9} + \frac{2}{7} = 0.77460.$$

$$\frac{2}{12^2} + \frac{1}{10^2} + \frac{2}{9^2} + \frac{2}{7^2} = 0.089397.$$

$$0.77460 \pm 1.96\sqrt{0.089397} = 0.77460 \pm 0.58603. \quad \text{The confidence interval is } 0.77460 \pm 0.58603.$$

The variance estimate is 0.089397

The interval is from 0.1886 to 1.3606.