

## MATH 134A Review: Sample Statistics

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1. If three hundred out of five hundred students surveyed answers that “yes” mathematics is interesting, then what is the current best estimate for the proportion of all students that also would answer “yes” ?

**Solution:**

$$\frac{300}{500} = \frac{3}{5} = 60\%$$

2. Assume the mean of a data sample is 100, and the size of the data sample is two. You are given that one data value out of the two is 102. What is the point estimate for the population variance?

**Solution:**

$$\frac{(102 - 100)^2 + (98 - 100)^2}{2 - 1} = 8$$