

# AP Statistics – Semester 1 Benchmark Study Guide

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As you begin studying for your Benchmark Exam, here are a few tips for you:

1. The Exam consists of 25 Multiple Choice questions and 4 Free-Response questions. Each section contributes 50% to your Exam score.
  2. The free response section will be graded like the actual AP exam.
  3. Formulas and a z-table will be provided for you
  4. The study guide will be due on **October 3**. We will have time on that day to ask questions, but no time for questions the day of the exam.
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1. How can you tell which measures of center & spread (central tendency and variability) to use when describing a distribution?

If the distribution is fairly symmetric with no outliers, use mean + standard deviation.

If the distribution is skewed or has outliers, use median + IQR.

2. How can you tell the shape of a distribution by knowing its mean and median?

If they are roughly equal, the shape is symmetric

If mean > median, it's right-skewed. If mean < median, it's left-skewed, because the mean is pulled toward the tail.

3. Summarize the effects of multiplying/dividing/adding/subtracting constants from each observation of a distribution. How are measures of center, measures of spread, and shape affected?

Shape: no affect

Center: Affected by adding, subtracting, multiplying, & dividing

Spread: Affected by multiplying & dividing

4. What is the five number summary, and what are the benefits of knowing/calculating it?

5-number Summary: min,  $Q_1$ , Median,  $Q_3$ , Max

1. Divides distribution into 25% chunks.
2. Can create boxplot
3. Can tell shape of distribution
4. Can test for outliers.

# Mid Year Benchmark Study Guide Key

**Karin Nielsen-Saines**



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