

AP Statistics

Name: _____ Score: _____

1. In a data set of 200 students' commute times, the individuals are...
 - ☐ the 200 students
 - ☐ the commute times
 - ☐ the average
 - ☐ the survey
2. Eye color is a _____ variable.
 - ☐ continuous
 - ☐ discrete
 - ☐ quantitative
 - ☐ categorical
3. Of 120 students, 30 prefer maths. What is the relative frequency (as a decimal)?

4. In a bar chart, the height of each bar represents...
 - ☐ the frequency or relative frequency
 - ☐ the category name
 - ☐ the range
 - ☐ the mean
5. A histogram's bars touch because the scale is continuous.
 - ☐ True ☐ False
6. A distribution with a long tail stretching to the left is...
 - ☐ uniform
 - ☐ symmetric
 - ☐ skewed left
 - ☐ skewed right
7. Find the median of 4, 5, 6, 7, 100.

8. The length of the box in a boxplot represents the...

- ☐ range
- ☐ mean
- ☐ standard deviation
- ☐ IQR

9. A complete comparison of two groups addresses **which** features?

- ☐ shape
- ☐ unusual features
- ☐ center
- ☐ spread

Tick every correct option.

10. About what percent of a normal distribution lies within 1 standard deviation of the mean?

AP Statistics

1. **the 200 students**

Individuals are the cases (students); commute time is the variable.

2. **categorical**

It records a label/group $\rightarrow$ categorical.

3. **0.25**

$30/120 = 0.25$.

4. **the frequency or relative frequency**

Bar height = count (or proportion) in that category.

5. **True**

Touching bars distinguish it from a categorical bar chart.

6. **skewed left**

Skew is named for the tail direction $\rightarrow$ left.

7. **6**

The middle value of the sorted data is 6.

8. **IQR**

Box from Q_1 to $Q_3 = \text{IQR}$.

9. **shape; unusual features; center; spread**

Shape, center, spread, and unusual features for both groups.

10. **68**

The empirical rule: about 68%.