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

   ☐ 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...

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   ☐ 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?

    _____

1. **the 200 students**

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

2. **categorical**

   It records a label/group → categorical.

3. **0.25**

   $30/120 = 0.25$.

4. **the 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 → left.

7. **6**

   The middle value of the sorted data is 6.

8. **IQR**

   Box from Q_1 to Q_3 = IQR.

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

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

10. **68**

    The empirical rule: about 68%.

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