ALGEBRA 2 · HOMEWORK · SPECIAL ED

Distinguish Between Parameters and Statistics

SCORE / 25

01 Part A · Practice

A parameter describes a whole population; a statistic describes a sample and is used to estimate the parameter.

1 ●○○

Records for all 5500 households in Newark show that 76% recycle every week. Is 76% a parameter or a statistic?

HINT Does the number describe the whole population or only a sample?

2 ●○○

A random sample of students in a book club: pages read per night 68, 73, 66, 66, 62. Find $\bar{x}$.

HINT Add the data and divide by the number of values.

3 ●○○

In a random sample of 20 nurses at a hospital in Austin, 7 work night shifts. Find the sample proportion $\hat{p}$. Is it a parameter or a statistic?

HINT Divide the number who said yes by the sample size.

4 ●○○

For a random sample of 320 customers of a bank in Tulsa, the standard deviation of their ages is 14 years. Parameter or statistic?

HINT Population → parameter; sample → statistic.

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Preview - the full worksheet and its answer key are at primeworksheet.com