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Quiz & Worksheet - Estimating Areas Under the Normal Curve Using Z-Scores

1. Which of these would have the largest area?

- Everything under a Z-score of 1
- Everything under a Z-score of 2
- Everything under a Z-score of -1
- Everything under a Z-score of -3

2. A statistician has figured out the percentage of the area under a normal curve that meets certain criteria. How would they apply this knowledge to a given sample?

- They would multiply the percentage by the total sample size.
- They would divide the total sample size by the percentage.
- They would use the percentage to determine a Z-score, and subtract it from the sample size.
- They would use the percentage to determine a Z-score, and add it to the sample size.

3. Where is the normal distribution curve at its highest point?

- Z-score of 1
- Z-score of 2
- Mean
- Z-score of 3

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Chapter 1: Introduction to Data

Goal: Describing How you or Someone else Thinks, Feels, or Behaves (1.1)

Attribute: Characteristics of people or things (1.2)
Age
Weight
Height

Population: Collection of all data values (1.1)

Sample: Part of population

Quantitative Variable: Describes quantities of the objects of interest (Quantitative variables) (1.3)

Categorical Variable: Describes qualities of the objects of interest (Categorical variables) (1.4)

Discrete Data: Many variables

Continuous Data: Only two variables

Weight	Height	Age

"Structured"

Age	Height

"Unstructured"

Table 1.1: Data

CHAPTER III FREQUENCY DISTRIBUTION

Frequency Distribution or Frequency Table is a tabular summary of a set of data that shows the total number of times a specific data item occurred or fell under one of the distinct classes named.

Two Types of data in Frequency Distribution

- Grouped Data
- Ungrouped Data

UNGROUPED DATA

➤ It names all the data in tabular form and tells how many times the value occurred.

Example 1 :

Consider the following data obtained when a dice tossed 40 times.

2 5 4 6 3 6 1 6
1 2 5 4 6 3 2 1
5 6 6 1 2 4 4 4
4 2 1 3 5 6 4 6
5 2 3 6 3 2 3 1

Construct a frequency table

Solution :

Create a three column table. In the first row, you will put the numbers in the dice. In the second row, the tally of each numbers in the dice appeared. In the last column, the frequency by which the values occurred.

Number on the Dice	Tally	Frequency
1	III	6
2	IIII	7
3	III	6
4	IIII	7
5	III	5
6	IIII	9
SUM		40

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