Statistical and Probability Vocabulary

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                                    ¹Z
                                     S          ²S                    ³E
                                     C           T                     M
                                     O      ⁴D   A                     P
                                     R       O    T                     I
              ⁵E X P E R I M E N T            I             ⁶S U R V E Y
            ⁷S                       P        S                         I
             T              ⁸M        L        T    ⁹M                  C
             A       ¹⁰C A T E G O R I C A L  D A T A
             N               A         T        C    R                  L
             D      ¹¹P       N         A        A    G         ¹²E
             A       O                  L        L    I          S
             R       P    ¹³S I M U L A T I O N       ¹⁴P  L      T
             D       U                  N        O      R   E      I
             D       L           ¹⁵S    V        F      O   M
             E   ¹⁶D A T A  ¹⁷P A R A M E T E R  ¹⁸B A R G R A P H
             V       T                  M    S    R      A         T
         ¹⁹S T A T I S T I C S    ²⁰C   P    T    R  ²¹O B S E R V E
             A       O            O     L    I    O      I
             T   ²²I N F E R E N C E    G    R    R      L   ²³B
             I                    C     A         A      I     X
             O        ²⁴N O R M A L D I S T R I B U T I O N
             N                    U     I         Y      X
              ²⁵H Y P O T H E S I S     O              P
             I                    N     N       ²⁶M    L
             O                    O             O      O
              ²⁷Q U A N T I T A T I V E D A T A
                                               E
                                               L
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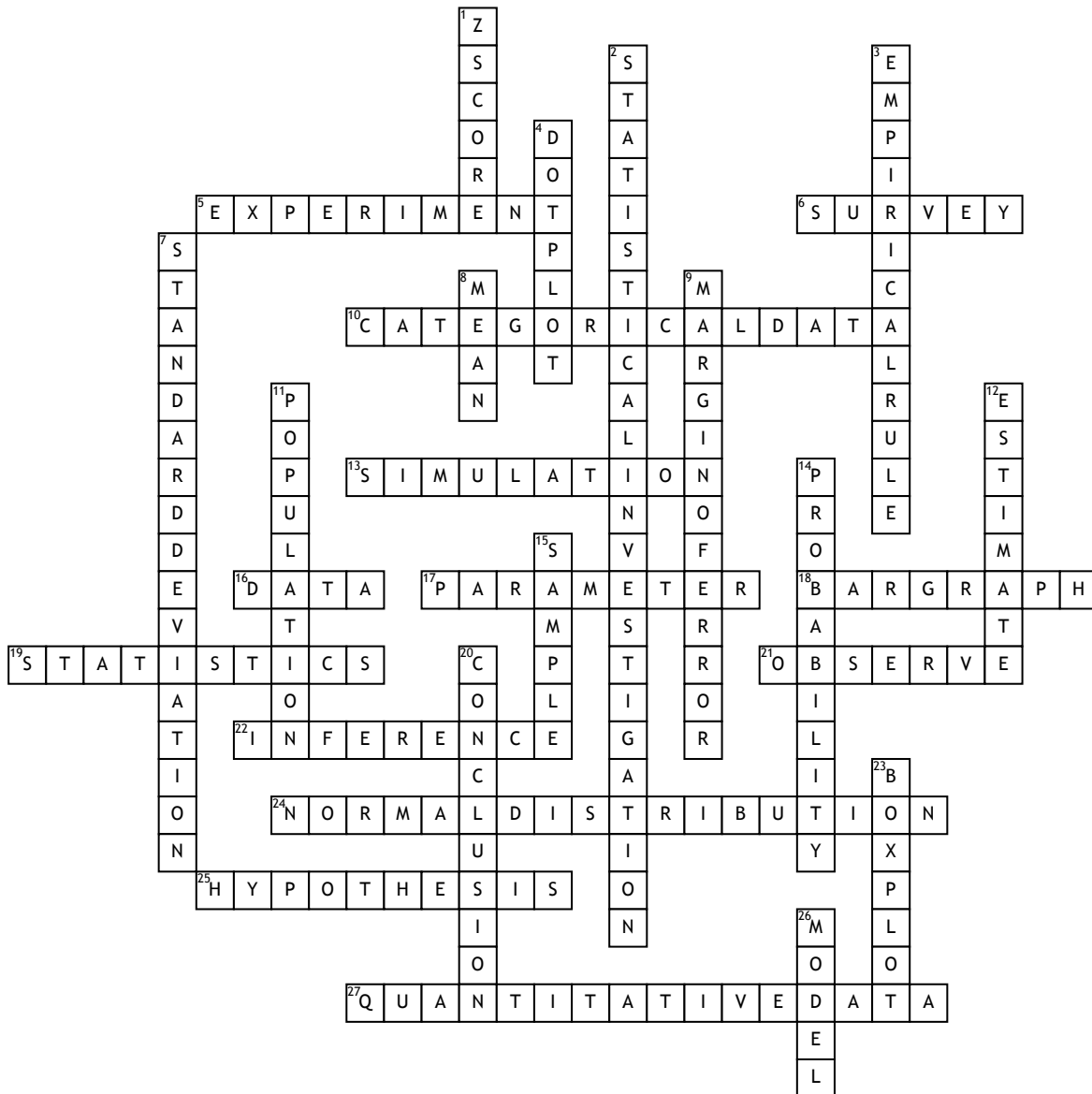
Across

5. A controlled study in which the researcher attempts to understand cause-and-effect relationships.

6. An investigation about the characteristics of a given population by means of collecting data from a sample of that population.

10. Represents characteristics such as a person's gender, marital status, hometown, or the types of movies they like.

13. Process of imitating a real phenomenon with a set of mathematical formulas.

16. Individual pieces of factual information recorded and used for the purpose of analysis.

17. Any numerical quantity that characterizes a given population or some aspect of it.

18. Chart that uses bars to show comparisons between categories of data.

19. Collecting and analyzing numerical data in large quantities, especially for the purpose of inferring proportions in a whole from those in a representative sample.

21. Act of noticing something or a judgment or inference from something seen.

22. The theory, methods, and practice of forming judgments about the parameters of a population and the reliability of statistical relationships.

24. Showing that data near the mean are more frequent in occurrence than data far from the mean. In graph form it appears as a bell curve.

25. Is an assumption about a population parameter. This assumption may or may not be true.

27. Is data expressing a certain quantity, amount or range.

Down

1. A numerical measurement used in statistics of a value's relationship to the mean (average) of a group of values.

2. Part of an information gathering and learning process which is undertaken to seek meaning from.

3. States that for a normal distribution, nearly all of the data will fall within three standard deviations of the mean.

4. Is a graphical display of data using dots.

7. Is a measure of how spread out numbers are.

8. Average that is used to derive the central tendency of the data in question.

9. Expresses the maximum expected difference between the true population parameter and a sample estimate of that parameter.

11. Total set of observations that can be made.

12. Calculate the value of some property of a population from observations of a sample drawn from the population, a guess.

14. A measure quantifying the likelihood that events will occur.

15. A set of observations drawn from a population.

20. Is another word for outcome

23. Graph looks like a rectangle with lines extending from the top and bottom.

26. Known as tests that can be used to analyze data.