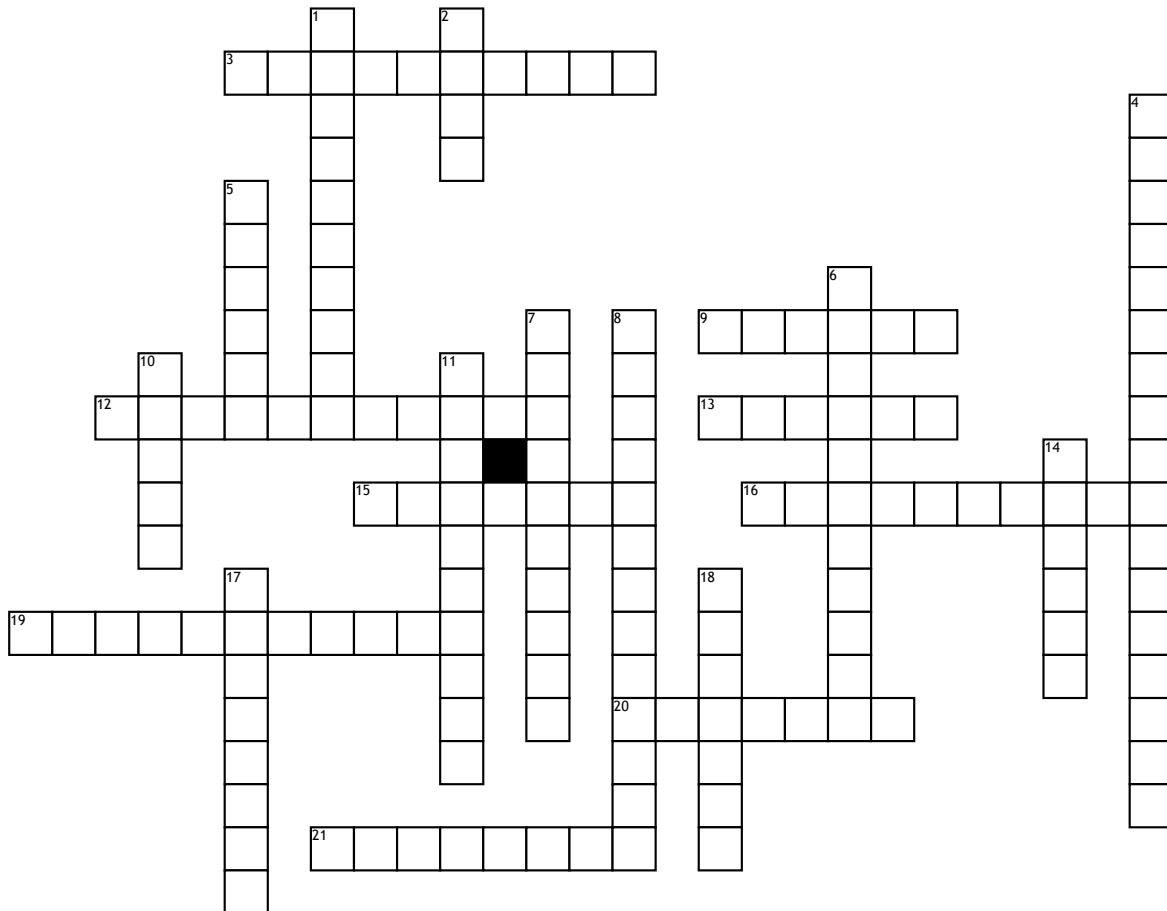


Statistics Review



Across

- 3. In a normal distribution, approximately _____% of the data is within 1 standard deviation of the mean.
- 9. The _____ of a data value measures the number of standard deviations either above or below the mean.
- 12. A data set has a mean of 42 with a standard deviation of 5.2. Approximately what percent of the data falls between the values 38 and 50? (Round to the nearest whole percent)
- 13. If research want to collect data related to how people feel or their preferences on a certain topic they would most likely conduct a _____.
- 15. The lead lunch lady wants to know the type of breakfast students prefer. She selects 10 tables in the cafeteria randomly and surveys every student at each table. This is an example of a _____ random sample.
- 16. In a normal distribution, approximately _____% of the data is within 2 standard deviations of the mean.

19. The average on a standardized test is a 62 with a standard deviation of 3. Approximately what percent of scores would fall below a 68? (Round to the nearest whole number)

20. A data value that is significantly higher or lower than the rest of the data set is called an _____.

21. A normal distribution curve is _____; meaning it has one "peak."

Down

- 1. In an _____, researchers manipulate variables to try and determine cause and effect.
- 2. In a normal distribution, the shape is commonly referred to as a _____ curve.
- 4. The mean describes the center of a normal distribution while the _____ describes the spread.
- 5. When gathering statistical data, when some members of the group are selected to represent the entire group we call this the _____.
- 6. _____ sample: The researcher chooses a sample that is readily available in some non-random way.

7. A teacher surveys her students by selecting 5 students randomly from each of her 4 classes. This an example of a _____ random sample.

8. In an _____ study, researchers monitor the behavior of participants without trying to influence it in any way so they can learn about the parameter of interest.

10. The percentile of a data value describes the percentage of data _____ that point.

11. When gathering statistical data, the entire group that we are interested in is referred to as the _____.

14. Each student at school is assigned a student identification number. Counselors have a computer generate 50 random identification numbers and those students are asked to take a survey. This is an example of a _____ random survey.

17. A normal distribution curve has _____ about the mean.

18. A farmer grows apples. The average weight of an apple is 185 grams with a standard deviation of 11 grams. What percent of apples weigh less than 174 grams?