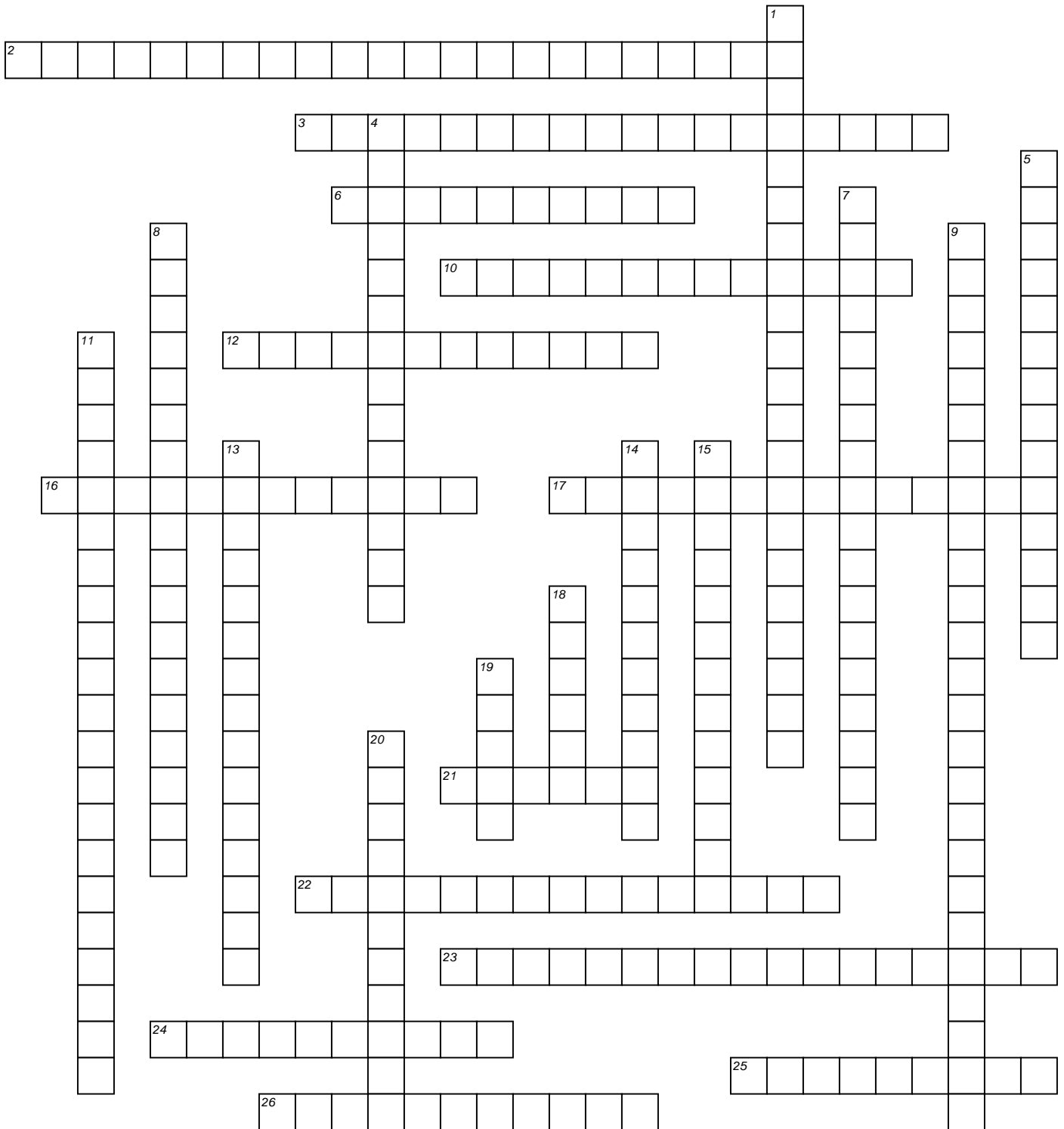


Inference

Advanced Placement Statistics



ACROSS

- 2 confidence interval for the true value of a proportion
- 3 an interval of values usually of the form estimate \pm margin of error
- 6 threshold P-value that determines when we reject a null hypothesis
- 10 distribution that is unimodal, symmetric, and bell-shaped, but generally has fatter tails and a narrower center than the Normal model
- 12 type of chi-square test used for categorical data collected from a single sample
- 16 decision made the the p-value is large enough to believe that the statistic could have occurred due to chance variation
- 17 type of test used to show that the true mean of one population is less than, greater than, or unequal to the mean of another population
- 21 decision made when the p-value is too small to believe that the statistic could have occurred due to chance variation
- 22 type of interval used to show a plausible range of values for the true mean difference of two populations that are not independent
- 23 type of chi-square test used to show the actual distribution of a categorical variable is not the same as the proposed distribution
- 24 error of rejecting a null hypothesis when in fact it is true (also called a "false positive")
- 25 type of distribution that is skewed right, but appears more symmetric as the degrees of freedom increase
- 26 type of test used to show the true mean difference is less than, greater than, or unequal to a null value, for two populations that are not independent

DOWN

- 1 proposes what we should conclude if we find the null hypothesis to be unlikely
- 4 claim that specifies a value for some population parameter that can form the basis for assuming a sampling distribution for a test statistic
- 5 type of test used to show that the true mean of a population is less than, greater than, or unequal to a null value
- 7 type of interval used to show a plausible range of values for the true mean difference of two independent populations
- 8 type of interval used to show a plausible range of values for the true mean of a population
- 9 type of interval used to show a plausible range of values for the true slope for two quantitative variables
- 11 type of test used to show there is a relationship between two quantitative variables
- 13 proportion of all samples of size n that will produce a statistic within a corresponding margin of error of the true parameter
- 14 type of chi-square test used for categorical data collected from two or more groups
- 15 extent of the interval on either side of the observed statistic value
- 18 the probability of observing a value for a test statistic at least as far from the hypothesized value as the statistic actually observed if the null hypothesis is true
- 19 probability that a hypothesis test will correctly reject a false null hypothesis
- 20 error of failing to reject a null hypothesis when in fact it is false (also called a "false negative")