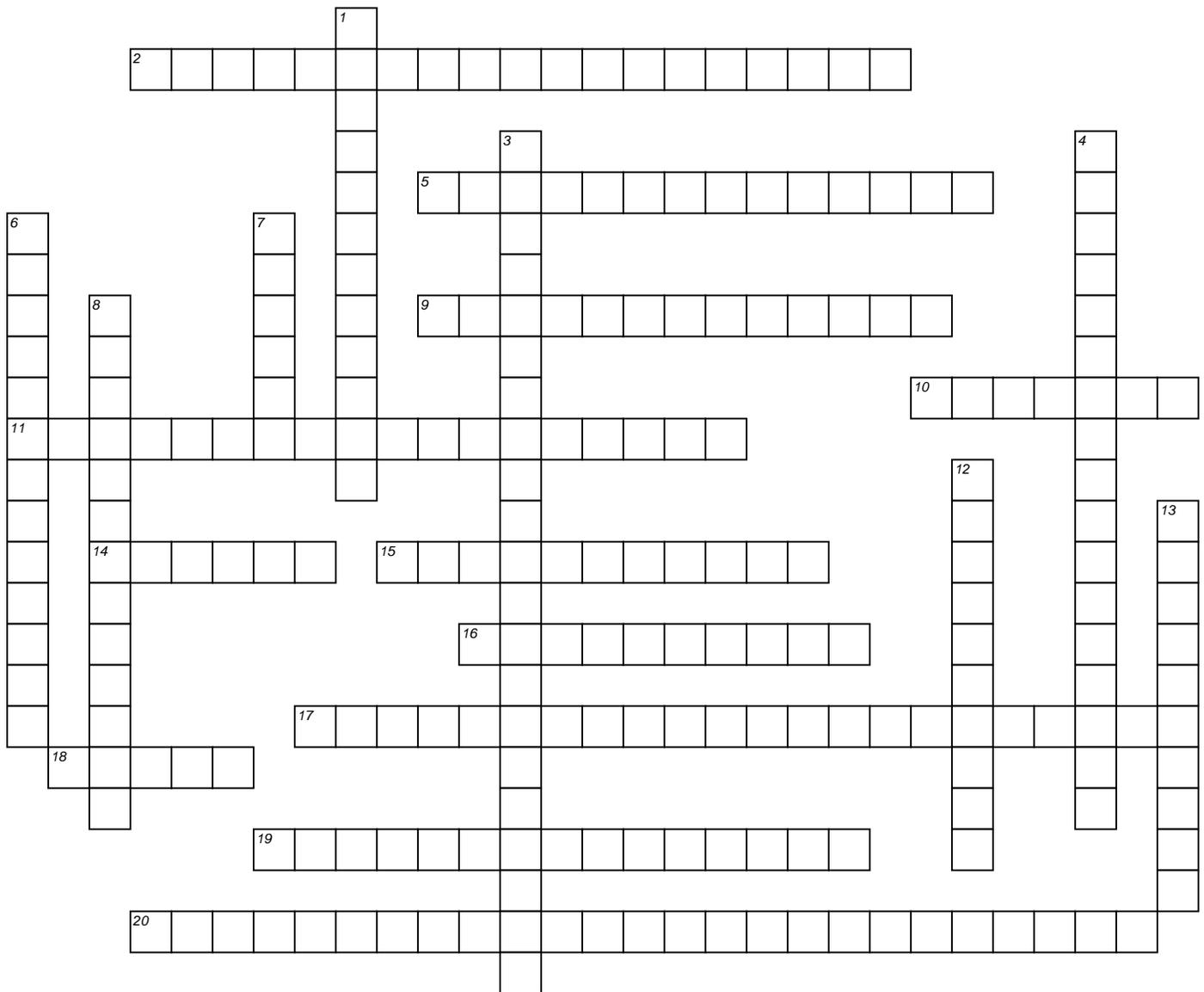


Inferences About Proportions

Advanced Placement Statistics



Stats: Modeling the World, Chapters 18-22

ACROSS

- 2 states that the sampling distribution model of the sample mean (and proportion) is approximately Normal for large n , regardless of the distribution of the population, as long as the observations are independent
- 5 claim that specifies a value for some population parameter that can form the basis for assuming a sampling distribution for a test statistic
- 9 extent of the interval on either side of the observed statistic value
- 10 combining groups when we have data from different sources that we believe are homogeneous
- 11 an interval of values usually of the form estimate \pm margin of error
- 14 decision made when the p -value is too small to believe that the statistic could have occurred due to chance variation
- 15 error of failing to reject a null hypothesis when in fact it is false (also called a "false positive")
- 16 error of rejecting a null hypothesis when in fact it is true (also called a "false positive")
- 17 confidence interval for the true value of a proportion
- 18 probability that a hypothesis test will correctly reject a false null hypothesis
- 19 proportion of all samples of size n that will produce a statistic within a corresponding margin of error of the true parameter
- 20 shows the behavior of the statistic over all the possible samples for the same size n

DOWN

- 1 decision made when the p -value is large enough to believe that the statistic could have occurred due to chance variation
- 3 proposes what we should conclude if we find the null hypothesis to be unlikely
- 4 alpha level
- 6 number of standard errors to move away from the mean of the sampling distribution to correspond to the specified level of confidence
- 7 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
- 8 when we estimate the standard deviation of a sampling distribution using statistics found from the data
- 12 number of successes out of a whole
- 13 threshold P -value that determines when we reject a null hypothesis