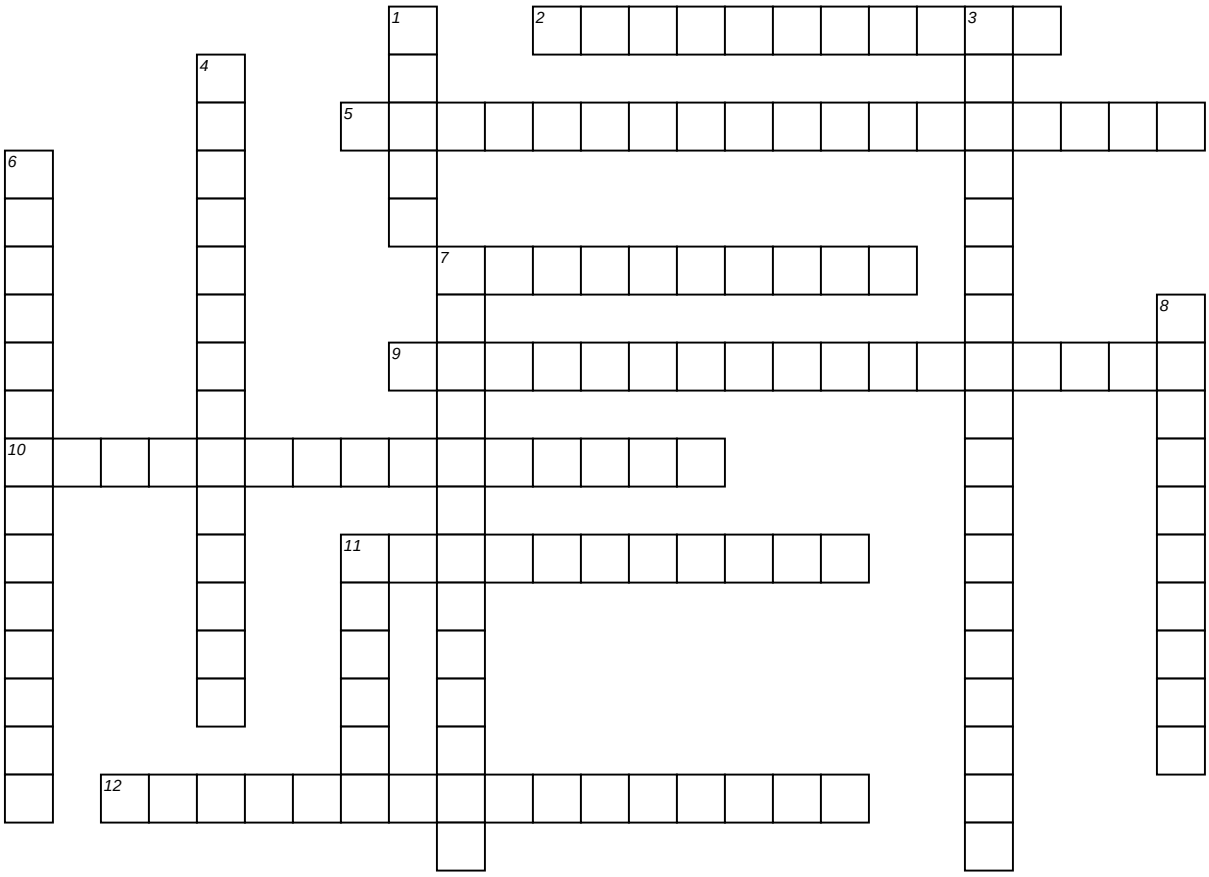
Inferences About Means

Advanced Placement Statistics



Stats: Modeling the World, Chapters 23-25

ACROSS

2 error of failing to reject a null hypothesis when in fact it is false (also called a "false positive")

5 type of interval used to show a plausible range of values for the true mean difference of two independent populations

7 error of rejecting a null hypothesis when in fact it is true (also called a "false positive")

9 alpha level

10 type of interval used to show a plausible range of values for the true mean difference of two populations that are not independent

11 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

12 as this increases, t-distributions approach the Normal model

DOWN

1 probability that a hypothesis test will correctly reject a false null hypothesis

3 type of interval used to show a plausible range of values for the true mean of a population

4 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

6 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 distribution that is unimodal, symmetric, and bell-shaped, but generally has fatter tails and a narrower center than the Normal model

8 threshold P-value that determines when we reject a null hypothesis

11 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