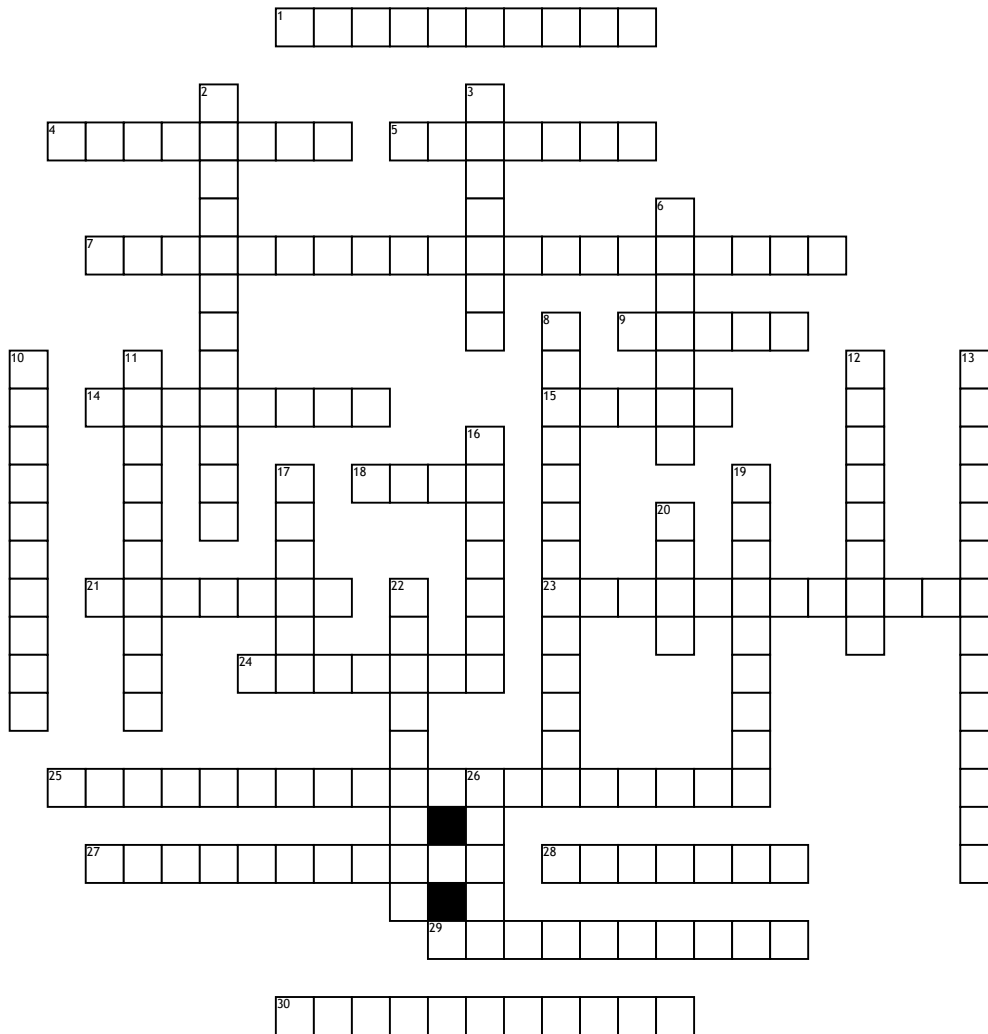


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# AP Statistics Crossword Puzzle



**Across**

- 1. rejecting a null hypothesis when it is in fact true
- 4. used to measure the variability, the average of the squared deviations from the mean
- 5. a faux treatment given in an experiment
- 7. the probability distribution of a binomial random variable
- 9. the probability of a Type 1 error
- 14. a distribution with a single, clearly defined peak
- 15. the probability of correctly rejecting the null hypothesis
- 18. the arithmetic average of a data set
- 21. a distribution with two clear peaks

**Down**

- 23. frequencies of values in a data set
- 24. the largest numerical value in a data set
- 25. two events whose probability adds up to 1
- 27. relationship between or among variables
- 28. the smallest numerical value in a data set
- 29. often used to describe the normal distribution curve
- 30. describes the chance that a certain outcome of a random phenomenon will occur by chance
- 2. a sample composed of individuals selected by chance
- 3. collection of observations from a sample or population
- 6. an extreme value in a data set
- 8. the mean of a probability distribution

- 10. failing to reject a null hypothesis when it is in fact false
- 11. one-variable data
- 12. individuals in an experiment that are people
- 13. events that cannot occur simultaneously
- 16. all data values in the distribution have similar frequencies
- 17. subgroups of a population that are similar or homogeneous
- 19. characteristics of the individuals under study
- 20. the probability of a type 2 error
- 22. the distribution resembles a mirror image on each side of the center
- 26. calculated as the maximum minus the minimum value in a data set

**Word Bank**

- |             |                 |                       |             |              |
|-------------|-----------------|-----------------------|-------------|--------------|
| variables   | type 1 error    | expected value        | outlier     | alpha        |
| bell-shaped | disjoint events | power                 | minimum     | association  |
| uniform     | random sample   | bimodal               | univariate  | type 2 error |
| variance    | mean            | beta                  | probability | symmetric    |
| strata      | distribution    | binomial distribution | data set    | unimodal     |
| subjects    | placebo         | complimentary events  | range       | maximum      |