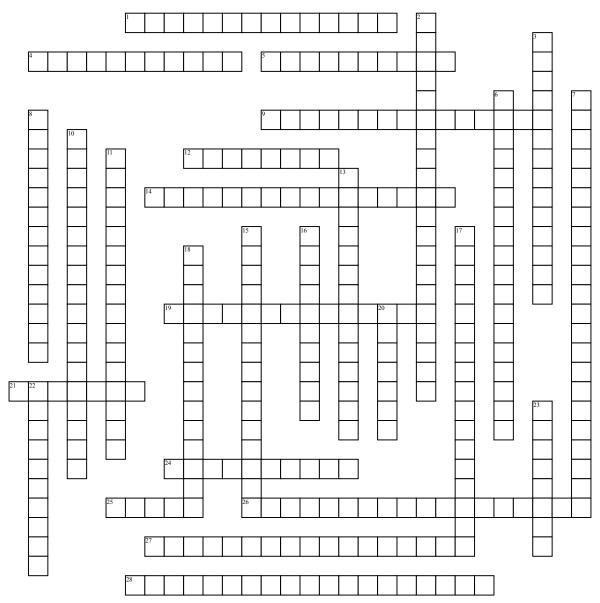
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## Chapter 2 Vocabulary



## Across

- 1. lists each statement on the left and the reasoning on the right.
- **4.** An if-then statement
- **5.** Either true or false
- **9.** If the hypothesis of a condition is true, then the conclusion is true.
- **12.** The opposite of the statement
- **14.** If a = b then a + c = b + c
- **19.** Allows you to state a conclusion from two true conditional statements when the conclusion of one statement is the hypothesis of the other statement.
- **21.** A conjecture that is proven
- **24.** A conclusion reached by using inductive reasoning.
- **25.** A convincing argument that uses deductive reasoning
- **26.** If a = b and b = c then a = c

- 27. a =
- **28.** If a = b then a c = b c

## Down

- 2. Statements with the same truth value
- **3.** An example showing that a statement is false
- **6.** the process of reasoning logically from given statements or facts to a conclusion.
- 7. If a = b then  $a \times c = b \times c$
- **8.** The combination of a conditional statement and its converse. Contains the words if and only if.
- **10.** Reasoning based on patterns you observe
- 11. If a = b and  $c \neq then a/c = b/c$
- **13.** The condition if not q then not p. Has the same truth value as a conditional.

- **15.** If the hypothesis of a conditional is true, then the conclusion is true.
- **16.** The then part of a conditional statement
- 17. If a = b then b = a
- **18.** Written as sentences in a paragraph.
- **20.** If not p then not q.
- 22. The if part of a conditional statement
- **23.** The statement obtained by reversing the hypothesis and conclusion of a converse.