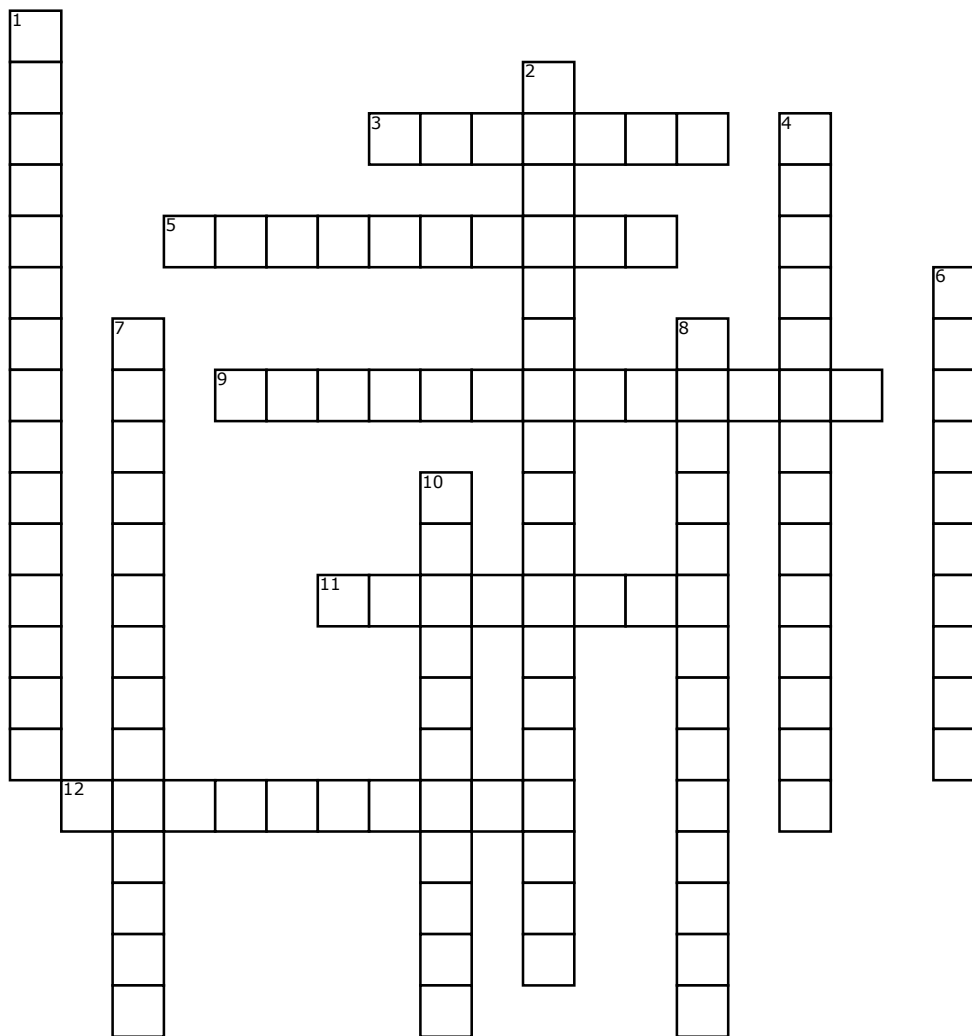# Conditional Statements

Across

3. A _____ statement is the negation of the conditional statement (~p => ~q)

5. A _____ is a conclusion reached

9. A _____ statement which is a combination of a conditional statement and its converse; contains the phrase "If and only if"

11. A _____ statement is the exchange of the hypothesis and conclusion (q => p)

12. In an if-then statement the conclusion follows THEN, which is the _____

Down

1. If the hypothesis of a true conditional is true, then the conclusion is true which is the _____

2. What is a process of reasoning logically from given facts to a conclusion

4. A _____ statement is the negation of a converse (~q => ~p)

6. In an if-then statement the hypothesis is that part that follows the IF, which is a _____

7. _____is used when you have two conditionals and the hypothesis of one matches the conclusion of the other.

8. A _____ is a an example showing that a statement is false

10. A _____ is an if-then statement (p => q)

Word Bank

Conditional

conclusion

counterexample

law of syllogism

Biconditional

converse

Conjecture

law of detachment

Deductive Reasoning

Inverse

hypothesis

contrapositive