Handout 1: If Math Could Speak

- 1. Is the statement, "1 + 1 = 2 and all tables are wooden," true or false?
- 7. What can be inferred from the statements, "Jeopardy is the best TV game show," and, "Wheel of Fortune airs before Jeopardy"?
- 2. Is the statement, "All birds can fly or no birds can fly," true or false?
- 8. What can be inferred from the statements, "A Reese's is a delicious morsel of chocolate-covered peanut butter," and, "There's no wrong way to eat a Reese's"?
- 3. What is the inverse of the converse of not $p \to q$?
- 4. What is the converse of, "All egg salads have mayonnaise"? Is it true?
- 5. What is the inverse of, "A duck's quack doesn't have an echo"?
- 9. What can be inferred from the statements, "All ducks have feathers," and, "The Geico mascot does not have feathers"?
- 6. Let's say the contrapositive of a statement is, "If he isn't using a knife and fork, then George isn't eating his Snickers bar." What is the original statement, in If-Then form?
- 10. What can be inferred from the inverse of the statements, "All ducks have feathers," and, "The Aflac mascot is a duck"?

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