

State a conclusion for each. Circle whether you used Inductive or Deductive reasoning.

1. All tests for the first 6 chapters had 20-30 questions. The chapter 7 test is tomorrow.

Conclusion: _____ **Ind or Ded**

2. All rectangles are parallelograms. ABCD is a rectangle.

Conclusion: _____ **Ind or Ded**

3. If you order apple pie, it will be served with vanilla ice cream. Katie ordered apple pie.

Conclusion: _____ **Ind or Ded**

4. On the past 5 geometry quizzes, John got a B. John has a geometry quiz today.

Conclusion: _____ **Ind or Ded**

5. Lassiter's volleyball team has won their first 3 games. They have a game Tuesday night.

Conclusion: _____ **Ind or Ded**

6. Joe is a high school student. All high school students have to take a math class.

Conclusion: _____ **Ind or Ded**

Decide whether the stated conclusion was drawn using Inductive or Deductive Reasoning.

7. For the past three Mondays, the cafeteria has served pizza for lunch. Dana concludes that the cafeteria will serve pizza for lunch this Monday.

8. If you live in Nevada and are between the ages of 16 and 18, then you must take driver's education to get your license. Andy has always lived in Nevada, is 16 years old and has a Nevada driver's license. Therefore, Anthony took driver's education.

9. Sherry started a new diet 3 weeks ago. She has lost 4 pounds every week totaling to 12 pounds so far. She concludes she will have lost a total of 20 pounds after two more weeks.

10. Sam is the oldest son in his family. The second oldest is Griffin, the third oldest is Tom, and Jay is the youngest. Tom is too young to have a driver's license. You concluded that Jay does not have a driver's license.

Re-write each of the following as conditional (if-then) statements. Underline the hypothesis and circle the conclusion.

11. I will go to the game if I get all of my homework done.

12. That water will freeze if the temperature is $10^{\circ}F$.

13. A student on the high honor roll has at least a 90 average.

14. Bert goes shopping for groceries only on Wednesday.

15. The number 2 is a factor of every even number.