Independent Practice: **DEDUCTIVE REASONING**

NA	ME: DATE: PERIOD:
1)	Use the Law of Detachment to make a conclusion.
	 All national parks are interesting. Yellowstone is a national park.
	Conclusion:
2)	Use the Law of Syllogism to make a conclusion.
	 If a river is more than 4000 miles long, then it is longer than the Amazon. If a river is longer than the Amazon, then it is the longest river in the world. The Nile River is 4132 miles long.
	Conclusion:
3)	Fill in the blank:
	1. If the measure of an angle is 90°, then it is a right angle. 2. $m\angle X = 90^{\circ}$.
	3. Therefore, ∠X is
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4)	Fill in the blank:
	1. A number that can be written as a repeating decimal is rational. 2. π is a number that cannot be written as a repeating decimal.
	3. Therefore, π

1. If three points are on the same line, then they are collinear	
 If three points are on the same line, then they are collinear. Pts. A, B, and C are on line <i>l</i>. 	
3. Conclusion:	
6) What is your <u>conclusion</u> based on the statements?1. If two planes intersect, then they intersect in a line.	
2. Plane R and Plane P intersect.	
3. Conclusion:	
7) Point M is a midpoint of segment AB.	
What would be your <u>conclusion</u> , if any? A) AB = BA B) AM = MA C) AB = MA D) AM = MB	
8) Given the statements:1. If an angle is acute, then it is not obtuse.2. ∠XYZ is not acute.	
 What would be your <u>conclusion</u>, if any? A) ∠XYZ is obtuse. B) ∠XYZ is acute. C) ∠XYZ is right. D) No conclusion can be reached. 	
9) Given the statements:	
 If a number is prime, then it is divisible by 1 and itself. If a number is divisible by 1 and itself, then it is not a perfect square. 	
Conclusion	