

June 4, 2015

6 possible combinations

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a Binary Number

0 or 1

2 ways: 0 or 1

$n = 8$  slots

256 possible numbers

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1.1 #24

2, 3, 5, 7, 11, 13, 17, ...

+1 +2 +2 +4 +2 +4

19, 23

$\frac{2}{1} = 2$	$\frac{5}{5} = 5$	Prime Numbers * Only divisible by one and itself.
$\frac{2}{2} = 1$	$\frac{5}{5} = 1$	
$\frac{3}{1} = 3$	$\frac{7}{7} = 7$	
$\frac{3}{3} = 1$	$\frac{7}{7} = 1$	
	$\frac{11}{11} = 11$	
	$\frac{11}{11} = 1$	

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2, 3, 5, 7, 9

+1 +2 +2

Make a Conclusion: after the first two numbers, we add 2 to get the next number.

9 = 1 · 3 · 3

Conjecture or Hypothesis

9 is not prime, but a composite number.

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2, 3, 5, 7, ...

+1 +2 +2

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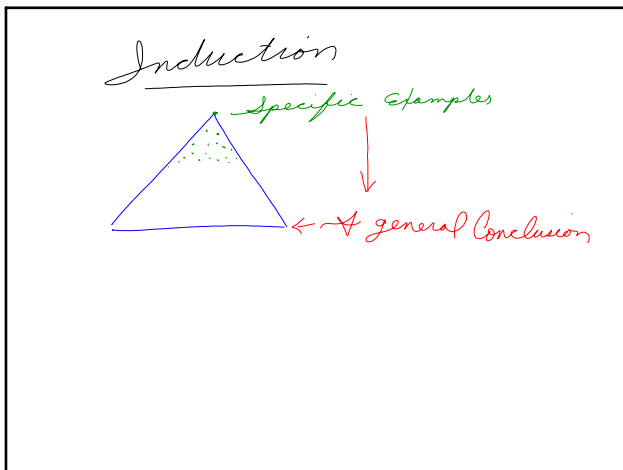
Logic: Is the study of things that are true or false.

Forms

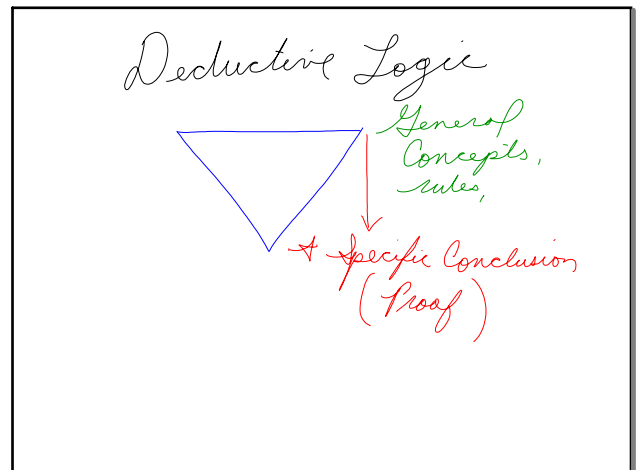
① Inductive Logic (Reasoning)

You observe specific examples and then draw a conclusion, called a Conjecture or Hypothesis.

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- Point

line is a collection of points

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$$8 + 2 - 4 = 6$$

①  $8 + 2$  addition in base 10

②  $10 - 4$  addition base 10

Base 8: 0, 1, 2, 3, 4, 5, 6, 7

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$$6 = 8 + 2 - 4$$

$$6 = 12 - 6$$

$$6 = 5 + 1$$

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Pract 1. 2

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