# PSYCHOLOGICAL STATISTICS

# LESSON 1: STATISTICS AND SCIENTIFIC METHOD

### Methods of Knowing

### Authority

- Something is considered true because of tradition or because some person of distinction says it is true.
- We may believe in the theory of evolution because our distinguished professors tell us it is true, or we may believe that God truly exists because our parents say so

### Rationalism

- Uses reasoning alone to arrive at knowledge
- There is a great number of situations in which reason alone is inadequate in determining the truth
- Reason alone, then, may be sufficient to yield truth in some situations, but it is clearly inadequate in others

### Intuition

- Intuition, we mean that sudden insight, the clarifying idea that springs into consciousness all at once as a whole
- It is not arrived at by reason, on the contrary, the idea often seems to occur after conscious reasoning has failed

#### Scientific Method

- Uses both reasoning and intuition for establishing truth, it reliance on objective assessment is what differentiates this method from the others
- At the heart of science lies the scientific experiment, the method of science is rather straightforward
- Reasoning deductively from existing theory or inductively from existing facts or through intuition
- The data from the experiment are then analyzed statistically, and the hypothesis is either supported or rejected
- The feature of overriding importance in this methodology is that no matter what the scientist believes is true regarding the hypothesis under study, the experiment provides the basis for an objective evaluation of the hypothesis
- Scientific methodology has a built-in safeguard for ensuring that truth assertions of any sort about reality must conform to what is demonstrated to be objectively true about the phenomena before the assertions are given the status of scientific truth

### Terms That Are Usually Used

### Population

 The complete set of individuals, objects, or scores that the investigator is interested in studying

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**Didier Musso** 

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