







= SRS FROM EACH STRATA













#### **VOLUNTARY RESPONSE** BIAS Sampling Method



**BIAS** volunteers may be more passionate

#### **CONVENTENCE SAMPLE** BIAS Sampling Method



**BIAS** sample may not be representative

# Sampling BIAS



### **Observational Study** Does work out Measure energy level **NO** treatment is imposed Doesn't work out 1(1 Measure energy level

# Experiment



#### Randomized Block Design



## Matched Pairs Design



### scope of inference

### Random SAMPLE

Random ASSIGNMENT Inference about POPULATION

Inference about

CAUSE &

FFFFCT