

## Management Decision Models

### MEASUREMENT

#### Table Exercise

Measure the height of a table. Observe the techniques and the sources of variation.

#### Richardson Exercise

Measure the perimeter of your hand using three indivisible units of measurement (say 6 inches, 1 inch, and  $1/10$  inch). Observe and explain the relationship between the result of the measurement and the arbitrary choice of measurement unit.

#### Measurement Types Exercise

Consider the definitions of these seven types of measure. Each adds a new constraint to the previous type.

Indicative:	existence
Nominal:	set membership
Ordinal:	ordering relation
Interval:	composition relation maps onto addition
Ratio:	meaningful zero
Real:	continuity
Imaginary:	complex structure of a number

Which types of measurement can be used on common things like: people in a room, light in a room, hairs on your head, hunger, thoughts, ....