

- science is about logic
- problem with the way we use theory in real world versus science

science

- 1) separate into control groups
- 2) not treated the same

medicine differences

- 1) can't make control groups
- 2) have to treat all patients the same

- 1) 50... antibiotic... 7-10 days... 49 cleared up... 14-21 days... 50 cleared
- 2) 50... placebo... 7-10 days... 48 still afflicted... 14-21 days... 46 cleared
- 3) 50... nothing... 7-10 days... 49 still afflicted... 14-21 days... 47 cleared

most things clear on their own

- supported hypothesis with antibiotics
- good science, **not good medicine**
- logical steps and method

Why am I buying milk in gallons and pop in liters?

US System

- 1) foot = 12in
- 2) mile = 5280ft
- 3) yard = 3ft

Metric System

- 1) meter = 100cm = 1000mm
- 2) "kilo" meter = 1000m
- * 1 dimension

Can I make a logical connection between length and volume?

- Missed the boat in US system
- US system failed to connect length to volume

Metric system

*tens

*tie length to volume

*ties volume to weight

1 kilogram = 2.2 pounds

1) use length to determine volume

2) cc= cubic centimeter = **1gram**

3) 1 liter = 1000ml

Gallon

1) 128 oz.

2) $\frac{1}{2}$, $\frac{1}{4}$

3) pint

US System

16oz = pound

same term for weight and volume

- plastic doesn't hold carbonation well
- lack of knowledge of metric system opened America to drug