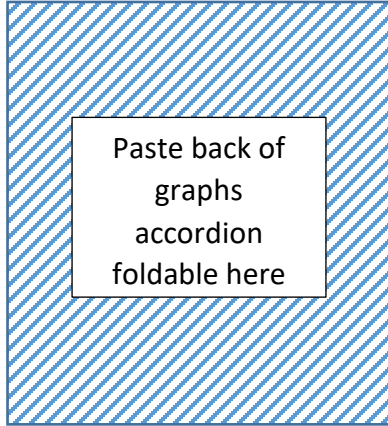


Scientific Quantities

Organizing your Data

All graphs need...

-
-
-
-

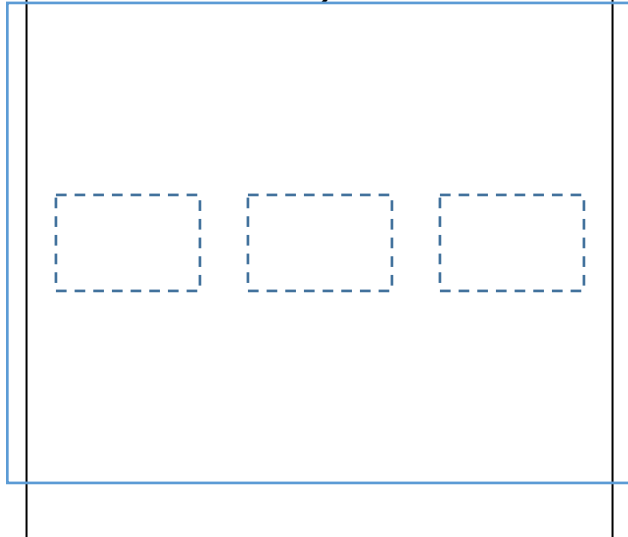


[Your Metric Prefixes Slider will rest here]

Paste the Metric Prefixes overlay here

The SI System

Quantity	Name	Symbol
<i>Length</i>		
<i>Mass</i>		
<i>Time</i>		
<i>Electric Current</i>		
<i>Temperature</i>		
<i>Amount of matter</i>		
<i>Luminous Intensity</i>		



Scientific Notation

Paste the scientific notation foldable here

Really cool website - <http://htwins.net/scale/>

What is dimensional analysis?

Paste the back of the dimensional analysis flipbook here.

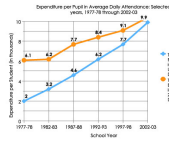
Data Tables

Should be organized so that...

Plant Widths, Lengths, and Mass					
Width	14.5	2.8	11.8	5.7	8.2
Length	154	29	63	90	107
Mass	45	54	34	23	37
Width	17.3	9.4	8.7	11.1	10.5
Length	54	83	44	83	19
Mass	38	28	49	22	31

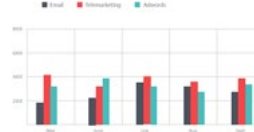
Line Graph

Best used for data that...



Bar graph

Best used for data that...



Pie graph

Best used for data that...



$$2.99 \times 10^8$$

$$\frac{10\text{yds}}{1\text{min}} \rightarrow \frac{\text{ft}}{\text{min}}$$

$$\frac{\text{yds}}{\text{min}} \cdot \frac{\text{ft}}{\text{yds}} = \frac{\text{ft}}{\text{min}}$$

$$\frac{10\text{yds}}{1\text{min}} \cdot \frac{3\text{ft}}{1\text{yd}} = \frac{10 \cdot 3\text{ft}}{1\text{min}} = \frac{30\text{ft}}{1\text{min}}$$

Final Answer

$$\frac{10\text{yds}}{1\text{min}} \rightarrow \frac{\text{ft}}{\text{min}}$$

$$\frac{\text{yds}}{\text{min}} \cdot \frac{\text{ft}}{\text{yds}} = \frac{\text{ft}}{\text{min}}$$

Cancel Units

$$\frac{10\text{yds}}{1\text{min}} \rightarrow \frac{\text{ft}}{\text{min}}$$

Identify Conversions

<i>PREFIX</i>	<i>SYMBOL</i>	<i>MEANING</i>
Kilo	K	10^3 (1,000)
hecto	h	10^2 (100)
deca	dK or D or da	10
---	(m, g, L, s, C)	base
Deci	D	10^{-1} (.1)
Centi	C	10^{-2} (.01)
Milli	M	10^{-3} (.001)

A process for changing the units of a measurement

Unit Conversions

**Dimensional
Analysis**

6 inches of duct tape
goes here

1) Convert 23 miles to feet.

Conversion factor needed: _____ = _____

Dimensional Analysis:

_____	_____	_____
_____	_____	_____

2) Convert 120 lbs to kilograms.

Conversion factor needed: _____ = _____

Dimensional Analysis:

_____	_____	_____
_____	_____	_____

3) 0.75 kg to milligrams

Conversion factors needed: _____ = _____ _____ = _____

Dimensional Analysis:

_____	_____	_____	_____
_____	_____	_____	_____

4) Convert 65 ounces to liters.

Conversion factors needed: _____ = _____ _____ = _____

Dimensional Analysis:

_____	_____	_____	_____
_____	_____	_____	_____

5280 feet = 1 mile

0.034 ounces = 1 milliliter

0.454 kg = 1 pound

1.6 kilometers = 1 mile

1.05 quarts = 1 liter

4 quarts = 1 gallon