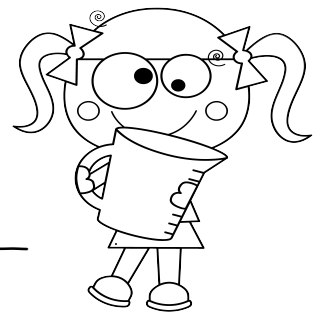


Measurement Study Guide



Test Date: _____

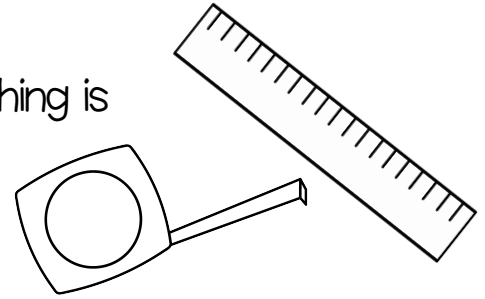
Length

What is length?

- Length is used to measure how long or tall something is

Tools used to measure length:

- Ruler, Tape Measure, Yard Stick, Meter Stick



Units used to measure length:

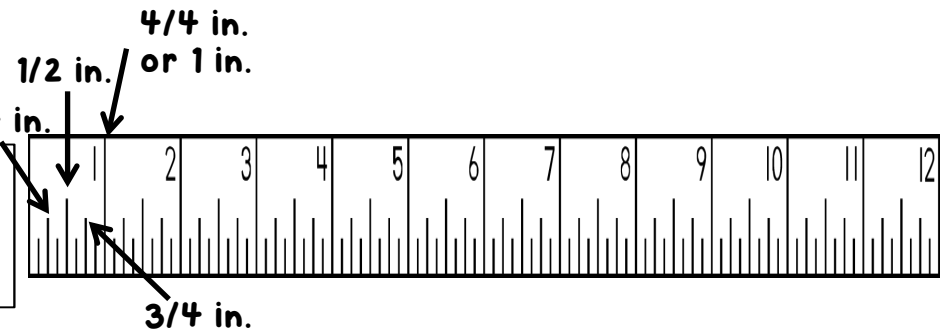
US Customary	Metric
(in order from SMALLEST to LARGEST) <ul style="list-style-type: none">Inch (in)—Ex: length of a paper clipFoot (ft)—Ex: length of a clipboardYard (yd)—Ex: height of a doorMile—Ex: length of a road	(in order from SMALLEST to LARGEST) <ul style="list-style-type: none">millimeter (mm)—Ex: width (side) of a dimecentimeter (cm)—Ex: width of your fingermeter (m)—Ex: length of a guitarkilometer (km)—Ex: length of a road

Important Conversions:

- 12 inches = 1 foot
- 3 feet = 1 yard

Using a Ruler

Inches on a ruler are broken into 4 sections. Each section is PART of the whole inch.



This is a metric ruler. Always make sure you line the object on the EDGE of the ruler, at the 0!



Capacity/Volume

What is capacity/volume?

- Capacity is the amount of liquid a container can hold when filled
- Volume is the amount of space a liquid takes up

Tools used to measure capacity/volume:

- Gallon, Quart, Beaker, Graduated Cylinder, Measuring Cup

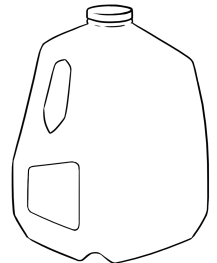
Units used to measure capacity/volume:

US Customary	Metric
(in order from SMALLEST to LARGEST) <ul style="list-style-type: none">• Cup (c)• Pint (pt)• Quart (qt)• Gallon	(in order from SMALLEST to LARGEST) <ul style="list-style-type: none">• Milliliter (mL)• Liter (L)

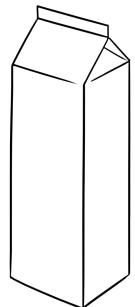
Important Conversions:

Remember the Gallon picture we drew!

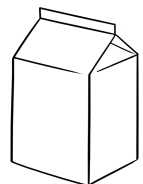
G = Gallon



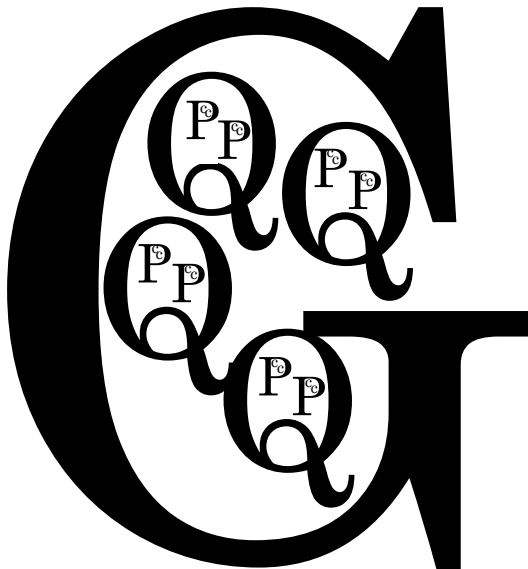
Q = Quart



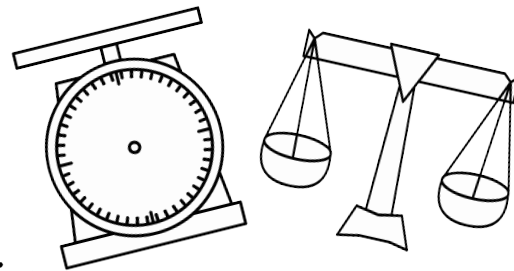
P = Pint



C = Cup



Weight/Mass



What is weight/mass?

- Mass—The amount of matter something contains
- Weight—How heavy something is

**The difference is that mass will NEVER change, but weight changes depending on gravitational pull*

Tools used to measure weight/mass:

- Balance, Double Pan Balance, Triple Beam Balance, Scale, Spring Scale

Units used to measure weight/mass:

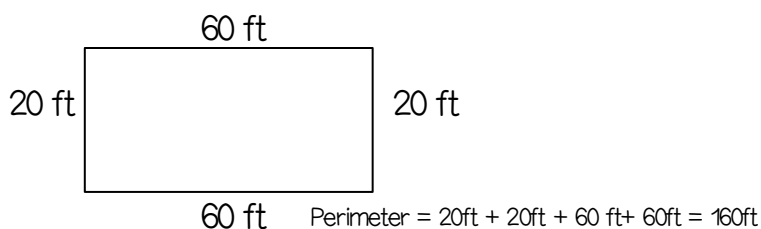
US Customary	Metric
(in order from SMALLEST to LARGEST)	(in order from SMALLEST to LARGEST)
<ul style="list-style-type: none"> • ounce (oz)—Ex: one pencil • pound (lb)—Ex: one football • ton —Ex: an elephant 	<ul style="list-style-type: none"> • milligram (mg)—Ex: one grain of sand • gram (g)—Ex: one paperclip • kilogram (kg)—Ex: one book

Important Conversions:

- 1 pound = 16 ounces
- 1 kilogram = 1,000 grams

Perimeter and Area

- PERIMETER is the DISTANCE AROUND a figure.
- To figure out the perimeter of a figure, you should ADD all the sides.
- Think of the perimeter as the *fence that surrounds a yard*



- AREA is the amount of space (square units) INSIDE a 2D shape.
- Measured in square units (ex: ft², in²)
- To figure out the area of a figure, you should MULTIPLY the LENGTH x WIDTH.

