SUPPLEMENT

MAKING SENSE OF THE NUMBERS & UNITS



The WWRB data table contains some unfamiliar terms. Fill out the table below to understand the units & numbers. You can also find resources on the Internet to help you understand what those units & numbers mean. For starters, you can check out the following:

http://en.wikipedia.org/wiki/Cubic_metre
http://www.kokogiak.com/megapenny/
<pre>http://mathforum.org/library/drmath/sets/select/dm_million.h tml</pre>
http://smile.oregonstate.edu/Photos/HSC/HSC_3.jpg
<pre>http://www.phys.unt.edu/~klittler/demo_room/mech_demos/cubic meter.jpg</pre>

Part I. Numbers

1 MILLION (M)	1 BILLION (B)		
1 M seconds = days	1 B seconds = days		
	1 B seconds = about years		
1 penny is 1.65 mm in thickness and 20.32 mm in diameter			
1 M pennies stacked in 1 pile = metres high	1 B pennies stacked in 1 pile = metres high		
1 M pennies side by side = metres long	1 B pennies side by side = metres long		
MAKE YOUR OWN:	MAKE YOUR OWN:		

Part II. Units

1 SQUARE KILOMETRE (km²)	1 CUBIC METRE (m ³)
Area of a typical football pitch = 110 metres × 70 metres = 7700 square metres (m ²)	1 m ³ = 1000 Litres 1 L = 0.26 gallon = 4.23 cups
<pre>1 km = 1000 m 1 km² = football pitch</pre>	1 $m^3 =$ Litres 1 $m^3 =$ gallons 1 $m^3 =$ cups
Area of Buckingham Palace = = 108 m long × 120 m deep = 12960 square metres (m ²)	Volume of 1 penny = 1.65 mm × 20.3 mm × 20.3 mm = 680 cubic mm (mm³)if they are blocks instead of cylinders
Buckingham Palace = km ²	It will take pennies to fill 1 m ³
MAKE YOUR OWN:	MAKE YOUR OWN: