

### Challenge #3

#### USCS vs Metric System

How much do you know?

You may be better at the Metric System than you think.

Try to answer all of these questions without looking up any information and without using a calculator.

	How many?		How many?
inches per yard		cm per m	
yards per mile		meters per km	
ounces per pound		grams / kg	
ounces per quart		cL/L	
pints per gallon		mL / L	
pounds per gallon (water)		Kg/L	
cubic inches per pint		cc per liter	
60 mph = ? ft/sec		100 km/hr = ? cm/sec	

### Challenge # 3 Solution

	How many?		How many?
inches per yard	36	cm per m	100
yards per mile	1760	meters per km	1000
• ounces per pound (wt)	16	grams / kg	1000
• ounces per quart (volume)	32	cL/L	100
pints per gallon	8	mL / L	1000
pounds per gallon (water)	~8.34	Kg/L	1
cubic inches per pint	~28.875	cc per liter	1000
60 mph = ? ft/sec	~88	100 km/hr = ? cm/sec	~2778