Exact numbers: numbers we use in counting and defining other quantities are assumed to be exact and to have an infinite number of significant figures. The number " 1 " is exact as well and could be expressed as 1.0000000000000
$2.54 \mathrm{~cm}=1 \mathrm{in}$
100 pennies $=\$ 1.00$
$12 \mathrm{in}=1 \mathrm{ft}$
$3 \mathrm{ft}=1 \mathrm{yd}$
144 pencils $=1$ gross
500 sheets of paper $=1$ ream
$60 \mathrm{sec}=1 \mathrm{~min}$.
$60 \mathrm{~min} .=1 \mathrm{hr}$
$24 \mathrm{hr}=1$ day
365 day $=1 \mathrm{yr}$.
$1000 \mathrm{~mm}=1 \mathrm{~m}$
$10 \mathrm{~mm}=1 \mathrm{~cm}$
$1,000,000 \mu \mathrm{~m}=1 \mathrm{~m}$
$1+($ ton, short) $=2000 \mathrm{lb}$
$4 \mathrm{qt}=1 \mathrm{gal}$
$16 \mathrm{oz}(\mathrm{dry})=1 \mathrm{lb}$
$5,280 \mathrm{ft}=1$ mile
$1 \mathrm{~L}=1 \mathrm{dm}^{3}$
The 1.8 \& 32 in $F=1.8^{\circ} \mathrm{C}+32$
The 273.15 in $\mathrm{K}={ }^{\circ} \mathrm{C}+273.15$
2 cups $=1$ pint
2 pints $=1$ q $\dagger$
$1 \mathrm{~mL}=1 \mathrm{~cm}^{3}$
1 quart $=32 \mathrm{fl} \mathrm{oz}$
1 bar = $10^{5}$ pascals
760 torr $=760 \mathrm{~mm} \mathrm{Hg}=1 \mathrm{~atm}$
*This is not a definitive list and certainly can be enhanced. Please feel free to explore this problem of exact versus inexact. Please tell me if you spot any errors and I will amend the list. Keep this sheet handy because it contains many of the conversion factors that you need for this class.

