Answers must be clearly **legible**, **simplified** and **boxed** or **circled**.   Where possible, give an **exact** answer otherwise use **two** decimal accuracy. **Units** required.

1)   Convert <u>150</u> ft/sec to mi/hr and <u>round accordingly</u>.

2)   Convert 5.20 × 10^7 gpm to cfs and <u>round accordingly</u>.

3)   Convert 645.6 cm to _____ ft _____ $\frac{}{16}$ in.

4)   Convert <u>2700</u> cc to gal.

5)   Convert 5' 10 $\frac{3}{8}$" to cm.

6)   Convert <u>32,000</u> sq-in to sq-yds.

7)   Convert 52.0 L to cubic inches.

8)   75.0 rpm = ? deg/sec

9)   Joe drinks four 6-packs/week. Convert that to $\dfrac{gal}{year}$ (assume 1 can = 16 oz)

10)   93 trillion miles = ? meters

BONUS

Using R = 1' 7", r = 9" and H = 2' 6" compute V to the nearest cc. $V = \dfrac{\pi H}{3} (R^2 + Rr + r^2)$