

Honor Code _____

Date _____

Homework for CLRS 303 Radiation Units

1. _____ MBq = 35 mCi.
2. 100 GBq = _____ Ci.
3. Your well counter has an efficiency of 55% what is the dpm of 37,500 counts that was acquired in 5 minutes?
4. _____ R/hour = 44.5 mSv?
5. 750 rad/hour = _____ mGy
6. How many mBq are in pBq?
7. There are _____ GBq is 5.7×10^8 nBq.
8. How many roentgen are there in 3.55×10^7 mr?
9. (extra credit) If you have 1 μ Ci that measures 22200 cpm in a well counter, what is its efficiency?

$$2.22 \times 10^{12} \text{ dpm} = 1\text{Ci}$$
$$3.7 \times 10^{10} \text{ dps} = 1\text{Ci}$$