Homework for CLRS 303 Radiation Units

1. _____ MBq = 35 mCi.

35 mCi x 37-x10 dps = 129.5 x10 dps or 1295 MBq

100 GAG X JX10 GAS - 2.7 C'

3. Your well counter has an efficiency of 55% what is the dpm of 37,500 counts that was acquired in 5 minutes?

37,000 = 67,273(Swin)/5 = 13,455dpm

R/hour = 44.5 mSv?

44.5 mst x - 100 mg 1000 mg = 4.45 R/h

750 rad/hour =

6. How many mBq are in pBq?

x TuBe = 109 Bq (what's The

7. There are _____ GBq is 5.7 x 10⁸ nBq.

5.7 NBq x 16Bq = 5.7 X10-186-Bq (D. Hume-10")

8. How many roentgen are there in 3.55 x 10⁷ mr?

3.55 × 10 mex 1000 me = 3.55 × 10 m

(extra credit) If you have 1 μCi that measures 22200 cpm in a well counter, what is its efficiency?

-6dpm = 1 ×10-2 × 100(%) = 190