For each of the following conversions, state every unity conversion you use, box your answer, and make sure it is in scientific notation. Your work should be done a separate sheet of paper and very clearly marked.

Example: 4 km = ? m

unity conversion words: 1 kilometer = 10^3 meter

unity conversion symbol: 1 km = 10^3

conversion:

1. 350 millisec = ? sec
2. 300 km = ? m
3. 4 x 10^3 Mg = ? gm
4. 9.8 m/sec^2= ? cm/sec^2
5. 4.6 sec = ? msec
6. 1.14 x 10^4 m = ? Gm
7. 9.78 x 10^4 gm = ? Mg
8. 4.8 x 10^{-2} gm = ? kg
9. 8.7 x 10^{-2} gm = ? mg
10. 5.4 x 10^{-8} gm = ? μg
11. 450 mg = ? gm
12. 7.5 x 10^{-4} Gg = ? gm
13. 3.4 x $10^4\mu$g = ? gm
14. 5 x 10^{-6} μm to m
15. 1.1 x 10^{-6} Mg to gm
16. 1000 gm to kg
17. 1 meter to km
18. 25 millisec to seconds
19. 980 cm/sec^2 to m/sec^2
20. 42 200 kilometer to meter
21. 15 kilometer to meter
22. 5 x 10^6 nm to m
23. 1.1 x 10^{-6} μg to gm
24. 13.3 cm/sec^2 to m/sec^2
25. 45 sq yd = ? sq ft
26. 1 sq ft = ? sq in
27. 25 sq ft = ? sq yd
28. 454 mg = ? kg
29. 60 mph = ? m/sec
30. 3 x 10^8 m/sec to mi/sec (Note: 1 mi = 1.61 km)