Metric Conversion Problems

Complete the following questions and metric conversions. You may use your metric ladder. Be very careful, the conversions involve moving both up and down the metric ladder.

1. When moving down the metric ladder, the decimal is moved to the _______________
2. When moving up the metric ladder, the decimal is moved to the _______________
3. True or False. The decimal is moved the same number of places in the conversion as steps taken on the metric ladder.
4. In a whole number such as 156, the decimal when not shown is always _______________ the number.
5. When the decimal moves beyond the original number, we must use _______________ as place holders.

Please make the following metric conversions:

6. 5 ml = ___________ cl = ___________ dl = ___________ l
7. 26 mm = ___________ cm = ___________ dm = ___________ m
8. 14 kg = ___________ hg = ___________ dag = ___________ g
9. 23.4 hm = ___________ dam = ___________ m = ___________ dm
10. .458 m = ___________ dam = ___________ hm = ___________ km
11. 35.67 mg = ___________ cg = ___________ dg = ___________ g
12. 1.111 ml = ___________ cl = ___________ dl = ___________ l
13. .0987 dal = ___________ l = ___________ dl = ___________ cl
14. 245 ml = ___________ l
15. 876 dag = ___________ dg
16. 9.987 cm = ___________ dam
17. .0089 km = ___________ m
18. 634090 ml = ___________ hL
19. 767 cg = ___________ dag
20. .090872 hL = ___________ dal