Rules for Significant Digits

1. All nonzero digits are significant.
2. Zeros between nonzero digits are significant.
3. Start counting significant digits at the first nonzero digit.
4. Counted numbers and definitions do not apply to significant digits (only measurements).
5. Zeros at the end of a number without a decimal in it are not significant.
6. Zeros at the end of a number with a decimal in it (anywhere in it) are significant.

Tell me the number of significant digits in the following numbers.

If a number is not significant put a line through it.

1. 50 m
2. 0.000935 mg
3. 909,000 cL
4. 64,000 peanuts
5. 59,000. Dag
6. 0.000 000 960 035 000 km

Convert the following using a two-step conversion going to the base unit in between.

1. 8,560 hm to dm
2. 0.9400 kg to mg
3. 4,500 cL to mL
4. 0.000 450 dag to cg
5. 400 hm to km