Worksheet: Significant Digits **Name**_____

1. The freezing point of a liquid is 55 °C. Give examples of three measurements of the freezing temperature that would be precise but not accurate.

2. In the measurement, 86.21, the "2" is (certain, estimated) and (significant, not significant). The "1" is (certain, estimated) and (significant, not significant).

3. How many significant digits are in these measurements?

   a) 25.001 cm _____

   b) 0.00012 kg _____

   c) 35,000 m/s _____

   d) 5.611×10^{5} s _____

   e) 0.0120 mm _____

   f) 2.00×10^{-3} mL _____

   g) $\overline{750}$ dg _____