Measurement #2

1. Complete the following unit conversions.

   (a) $2500\,\mu m = ?$ m

   (c) $4.8\,m = ?$ mm

   (b) $326\,000\,mg = ?$ kg

   (d) $2.1\,s = ?$ ms

2. Express each of these measurements in MKS units:

   (a) $9.1\,km$

   (c) $320\,g$

   (b) $53\,cm$

   (d) $1.2\,h$

3. You perform an experiment to measure the density of aluminum. After performing five trials, you get the following results:

Trial	Result (g/mL)
1	2.5
2	3.2
3	2.9
4	3.0
5	2.6

   (a) Are your measurements precise? Explain.

   (b) The widely accepted value for the density of aluminum is $2.7\,g/mL$. Are your measurements accurate? Explain.

   (c) Calculate the percent error based upon your average measurement. Is your percent error reasonable? Explain.