## General Chemistry Mr. MacGillivray Sample Quiz #3: Dimensional Analysis I

Only one of the conversion factors in each pair is correct. Circle the correct conversion factor.

<u>1000 mL</u> 1 L	or	<u>1 mL</u> 1000 L
<u>1 kg</u> 1000 g	or	<u>1000 kg</u> 1 g
<u>100 cm</u> <sup>3</sup> 1 L	or	<u>1000 cm</u> <sup>3</sup> 1 L

- Perform each of the following conversions using dimensional analysis.
- You must show work.
- The method used must be dimensional analysis as shown in class and in the text.
- Round answers to the correct number of significant figures.

Convert 138 m to cm

Convert 138 m to km

 $3.89 \times 10^4 L$  to mL