Student Name:	Per:	Date:	Score:
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Below are some conversion factors used in the SI System.

<u>kilo- = 1000</u>	<u>centi- = 1/100</u>	<u>milli- = 1/1000</u>	Other Conversions
1 kg = 1000 g	100 cm = 1 m	1000 mg = 1 g	$1 mL = 1 cm^{3}$
1 km = 1000 m		1000 mm = 1 m	$1 L = 1 dm^{3}$
1 kL = 1000 L		1000 mL = 1 L	1 cm = 10 mm

Solve each of the following problems. Show the correct set-up and always use units.

1. Determine the number of mm in 1600 m.	9. Convert 0.020 kg of tin (Sn) to mg of Sn.
2. Determine the number of m in 1600 mm.	10. Convert 150 mg of acetylsalicylic acid (aspirin) to g of aspirin.
3. Determine the number of mm in 14.3 cm.	11. Convert 2500 mL of hydrochloric acid (HCl) to L of HCl.
4. How many seconds are in 4.3 years?	12. A metallurgist is making an alloy that consists of 325 g of chromium (Cr) and 2.5 kg of iron (Fe). Find the total mass of the mixture in kg.
5. Convert 2875 cm ³ to liters.	13. How many mL of water (H_2O) will it take to fill a 2 L bottle that already contains 1.87 L of H_2O ?
 The density of lead (Pb) is 11.34 g/cm³. Find the density of Pb in kg/dm³. 	14. Convert 150 cm of copper (Cu) wire into mm of Cu wire.
7. Convert 5.2 cm of magnesium (Mg) ribbon to mm of Mg ribbon.	15. Convert 0.5 g of sodium (Na) to kg of Na.
8. Convert 0.049 kg sulfur (S) to g of S.	