

CHM 111 Dimensional Analysis Unit 1 Math Skills Toolbox

Useful Conversions: 4 qts = 1 gal; 0.946 L = 1 qt; 1 mile = 5280 ft; 1 ft = 30.5 cm

39.4 in = 1 m; 1 lb = 0.454 kg 1 in = 2.54 cm; 1 m = 10^2 cm

1 m = 10^{12} pm; 1 m = 10^6 μ m; 1 m = 10^9 nm; 1 km = 10^3 m

1 mL = 1 cm³; (1 "angstrom") = 1 \AA = 10^{-10} m 10^{10} \AA = 1 m

Please note that METRIC conversions will NOT be given on exams or quizzes, including temperature conversions between °C and K.

1. a) Convert 150 miles to cm. Remember to express your answer with the correct number of significant figures. Note that there are multiple ways (routes) to solve this problem.

b) Briefly justify whether or not your answer seems reasonable.

2. a) Convert 341.0 pm to feet. Remember to express your answer with the correct number of significant figures. Note that there are multiple ways (routes) to solve this problem.

b) Briefly justify whether or not your answer seems reasonable.

3. a) Convert 12.1 gallons to cm³. Remember to express your answer with the correct number of significant figures. Note that there are multiple ways (routes) to solve this problem.

b) Briefly justify whether or not your answer seems reasonable.

4. Many chemists at a recent conference in Atlanta, Georgia, participated in the 50. trillion Angstrom Run. How long is this run in miles?

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