Unit Conversions 1

Solve the following dimensional analysis problems. Make sure to show work in order to get credit for the assignment.

1. How many inches are in 45.6 cm? (There are 2.54 cm in 1 inch)

2. How many centimeters are there in 1.23×10^{-6} km?

3. How many hours are there in 34.5 years?

4. How many inches are there in 355 mm?

5. How many mL are there in a cubic meter? (There are 1000 L in 1 m^3)

6. How many miles are there in 3.44×10^8 inches? (There are 5280 feet in one mile)