Work each of the following problems. SHOW ALL WORK.

1. Convert 2.5 feet into inches. (1 ft = 12 in)

2. Convert 32 centimeters into inches. (1 in = 2.54 cm)

3. Convert 68 centimeters into feet.

4. Convert 142 weeks into years. (1 yr = 365.25 d; 1 week = 7 d)

5. Convert 8.1 kilograms into grams.

6. Convert 376 centimeters into meters.
Unit 1B
Scientific Notation & Unit Conversions
Practice Problems

Work each of the following problems. SHOW ALL WORK.

7. Convert 1.5 seconds to milliseconds.

8. Convert 6,400,000 milligrams to kilograms.

9. Convert the following numbers from standard notation to scientific notation:
   - $-3,600,000,000 = \underline{\hspace{2cm}}$
   - $0.000033 = \underline{\hspace{2cm}}$
   - $48,000,000 = \underline{\hspace{2cm}}$
   - $-0.000000053 = \underline{\hspace{2cm}}$

10. Convert the following numbers from scientific notation to standard notation:
    - $5.2 \times 10^{-4} = \underline{\hspace{2cm}}$
    - $-2.9 \times 10^5 = \underline{\hspace{2cm}}$
    - $7.1 \times 10^8 = \underline{\hspace{2cm}}$
    - $-1.8 \times 10^{-3} = \underline{\hspace{2cm}}$