

**Red Belt Warm-Up**  
**Wednesday January 25, 2006**

1. Write the following in standard form (scientific notation).

$$0.000096 =$$

$$2,5000,000 =$$

$$135 \times 10^{-3} =$$

$$5(2.1 \times 10^6) =$$

$$(2.1 \times 10^5)(3 \times 10^3) =$$

$$(5 \times 10^{-2})(4.2 \times 10^5) =$$

$$\frac{1}{10^5} =$$

$$\frac{1}{10^{-3}} =$$

$$\frac{4}{8 \times 10^7} =$$

$$\frac{4.2 \times 10^7}{1.4 \times 10^3} =$$

$$3.7 \times 10^3 + 5.3 \times 10^4 =$$

$$5 \times 10^{-2} - 28.8 \times 10^{-4} =$$

2. If  $x = 4.0 \times 10^{12}$ , put the following in standard form (scientific notation).

$$3x =$$

$$x^2 =$$

$$x^{1/2} =$$

3. The speed of light is 300,000,000 m/s. Find how far light travels in 1 minute and put the answer in standard form (scientific notation).