**Lesson 1.7 Homework Practice**

***Add and Subtract Numbers in Scientific Notation***

**Evaluate each expression. Express the result in scientific notation.**

**1.** ( ) + ( ) **2.** ( ) – ( )

**3.** ( ) – () **4.** () + ()

**5. MARS** The diameter of Mars is about 6.8 × kilometers. The diameter of Earth is about 1.2763 × kilometers. About how much greater is Earth’s diameter than the diameter of Mars?

**6.** Angora wool, obtained from rabbits, has fibers with a diameter of about 1.0 × meters in diameter. Cashmere, obtained from goats, has fibers with a diameter of about 1.45 × meter.

1. What is the sum of the diameters?-Show all work
2. How much wider is the cashmere fiber than the angora fiber? Show all work



Use the information below to answer all parts for question 7

A piece of land has an area represented by the expression . The length is represented by .

|  |  |
| --- | --- |
| a.) What is the width of the land?  ***Show all work and write your answer using EXPONENTS!!!*** | b.) What are the actual dimensions of the piece of land?  ***Show all work***  ***Length\_\_\_\_\_\_\_\_***  ***Width\_\_\_\_\_\_\_\_***  ***Area\_\_\_\_\_\_\_\_*** |