(2 x 107)(3 x 103)

**6 x 1010**

(4 x 10-3)(2 x 1010)

**8 x 107**

(3.5 x 102)(2 x 1012)

**7 x 1014**

(1.5 x 109)(1.5 x 10-4)

**2.25 x 105**

(2.32 x 10-6)(4 x 10-5)

**9.28 x 10-11**

(1.4 x 108)(3.45 x 104)

**4.83 x 1012**

(4.25 x 10-3)(1.5 x 10-8)

**6.375 x 10-11**

(3.2 x 102)(1.5 x 105)

**4.8 x 107**

(3 x 105)(4 x 107)

**12 x 1012**

**1.2 x 1013**

(5 x 10-4)(6 x 10-3)

**30 x 10-7**

**3 x 10-6**

(8 x 107)(3 x 10-2)

**24 x 105**

**2.4 x 106**

(7 x 109)(8 x 107)

**56 x 1016**

**5.6 x 1017**

(3.2 x 103)(5.8 x 1010)

**18.56 x 1013**

**1.856 x 1014**

(5.8 x 109)(9.5 x 106)

**55.1 x 1015**

**5.51 x 1016**

(7.5 x 1010)(4.9 x 107)

**36.75 x 1017**

**3.675 x 1018**

(8.6 x 109)(5.6 x 103)

**48.16 x 1012**

**4.816 x 1013**

**4 x 105**

**3.5 x 1011**

**3 x 10-3**

**2 x 102**

**5 x 1010**

**2 x 104**

**2.2 x 101**

**1.2 x 107**

**2.6 x 10-4**

**1.04 x 1012**

**1.2 x 10-2**

**6.35 x 10-4**

A certain star is 4.3 x 102 light years from Earth. One light year is about 5.9 x 1012 miles. How far from Earth (in miles) is the star?

**(4.3 x 102)(5.9 x 1012)**

**25.37 x 1014**

**2.537 x 1015**

The approximate circumference of earth is 4 x 104 m. The approximate circumference of Saturn is 3.6 x 105 km. How many times greater is the circumference of Saturn than the circumference of Earth?

**0.9 x 101**

**9 x 100 or 9**

The length of plant cell A is 8 x 10-5 meter. The length of plant cell B is 4 x 10-6 meter. How many times greater is plant cell A’s length than plant cell B’s length?

**2 x 10**

The US spends on average $1.02 x 104 on each student per year. There are about 7.7 x 107 students in the US. How much money is spent on students each year?

**(1.02 x 104)(7.7 x 107)**

**7.854 x 1011**

McDonald’s has about 2.1 x 105 managers and each makes an average of 3.9 x 104 dollars per year. How much money does McDonald’s spend on managers each year?

**(2.1 x 105)(3.9 x 104)**

**8.19 x 109**

Garbage generated in one country was 6 x 1010 pounds. The population of that country was 4 x 106 people. What was the average number of pounds of garbage produced per person in the country in one year?

**1.5 x 104**