**Make That Negative**

Multiplying by a negative exponent moves the decimal to the left, exactly like dividing by a power of ten. For example: 3.41 × 10 −2 = 0.0341. Simplify each problem below.

**1. 4,625 × 10−3  = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**2. 71.235 × 10−4 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**3. 97.203 × 10−2 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**4. 2,779.5 × 10−2 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**5. 539.5 × 10−4 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**6. 99,618 × 10−1 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**7. 40.702 × 10−5 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**8. 30,021 × 10−7 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**9. 1,007,100 × 10−5 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**10. 200,000 × 10−4 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**11. 134.134 × 10−2 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**12. 89.311 × 10−6 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Rewrite each of the multiplication questions as a division question.**

**13. 45.67 × 10−5 =** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**14. 872,122 × 10−4 =** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**15. 612 × 10−7 =** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**16. 0.4591 × 10−1 =** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**17. 3.481 × 10−3 =  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**18. 67,008 × 10−2 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Make That Negative (KEY)**

Multiplying by a negative exponent moves the decimal to the left, exactly like dividing by a power of ten. For example: 3.41 × 10 −2 = 0.0341. Simplify each problem below.

**1. 4,625 × 10−3 =4.625**

**2. 71.235 × 10−4 =0.0071235**

**3. 97.203 × 10−2 = 0.97203**

**4. 2,779.5 × 10−2 = 27.795**

**5. 539.5 × 10−4 =0.05395**

**6. 99,618 × 10−1 =9,961.8**

**7. 40.702 × 10−5 =0.00040702**

**8. 30,021 × 10−7 = 0.0030021**

**9. 1,007,100 × 10−5 =10.07100 or 10.071**

**10. 200,000 × 10−4 =20.0000 or 20**

**11. 134.134 × 10−2 =1.34134**

**12. 89.311 × 10−6 =0.000089311**

**Rewrite each of the multiplication questions as a division question.**

**13. 45.67 × 10−5 = 45.67 ÷ 105**

**14. 872,122 × 10−4 = 872,122** **÷ 104**

**15. 612 × 10−7 = 612** **÷ 107**

**16. 0.4591 × 10−1 = 0.4591** **÷ 10**

**17. 3.481 × 10−3 = 3.481 ÷ 103**

**18. 67,008 × 10−2 =67,008÷ 102**