

## Scientific Notation Guide & Notes

As the  
coefficient  
gets  
smaller



31,000,000  
3,100,000  $\times 10^1$   
310,000  $\times 10^2$   
31,000  $\times 10^3$   
3,100  $\times 10^4$   
310  $\times 10^5$   
31  $\times 10^6$   
3.1  $\times 10^7$   
.31  $\times 10^8$   
.031  $\times 10^9$   
.0031  $\times 10^{10}$

The  
exponent  
gets larger



As the  
coefficient  
gets larger

The  
exponent  
gets smaller

1.  $4.6 \times 10^9 + 5.1 \times 10^7$

2.  $6.5 \times 10^{13} - 2.2 \times 10^{11}$

#1 answer: \_\_\_\_\_

#2 answer: \_\_\_\_\_

3.  $(7.3 \times 10^8) (3.1 \times 10^5)$

4.  $\frac{3.72 \times 10^{97}}{1.24 \times 10^{82}}$

#3 answer: \_\_\_\_\_

#4 answer: \_\_\_\_\_