Scientific Notation

**Learning Outcomes**

* **Know how to rewrite standard notation as scientific notation**
* **Know how to rewrite scientific notation as standard notation**

In science, the numbers that we sometimes work with can be very large or very small. Scientific notation allows us to write these numbers in a shorter format.

Ex: Write 360 in scientific notation.

What factor of 10 would you have to multiply by to get back to the original number (# zeros = # places the decimal has moved).

Re-write with only one number in front of the decimal.

1. Change factor of 10 to a power of 10.
2. Answer =

Ex: Write 63 700 in scientific notation.

Ex: 2 156 000 000 000 =

Ex: 0.000 000 007 4 =

Negative value used for numbers less than one.

# Scientific Notation Worksheet

Change the following numbers to proper scientific notation.

1. 65.7
2. 0.005 45
3. 22 450 000
4. 88 500
5. 184.7
6. 0.0034
7. 0.000 000 080 3
8. 67 830 000 000 000 000
9. 3 450 000
10. 0.000 000 000 000 000 000 065

Change the following numbers into standard notation.

1. 
2. 
3. 
4. 
5. 
6. 
7. 
8. 
9. 
10. 