

Agenda

Homework:

- Moving the Decimal Worksheet
- Write summary for CN
- AM

Materials:

- Math Notebook

Do Now:

1. Take out homework
2. Complete Conversion Worksheet

Homework & Do Now Review

- [Conversion WS](#)
- [Go Math Workbook](#)



Set up Cornell Notes

- Topic: Scientific Notation - Relationship between the Decimal and the Power of 10
- EQ: How do the decimal and power of 10 affect each other?

Update Table of Contents:

11/9/15	Scientific Notation – Decimal & Power of 10	
11/10/15		

How are the exponent and decimal related?

- Let's see 😊

How are the decimal and power of 10 related?



- As you move the decimal to the **RIGHT**, the exponent **DECREASES** (goes down)
- As you move the decimal to the **LEFT**, the exponent **INCREASES** (goes up)

Let's think...

Move decimal to
RIGHT by 1



$$5.6789 \times 10^4$$



Exponent
DECREASES by 1

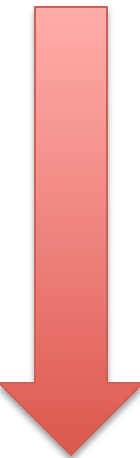
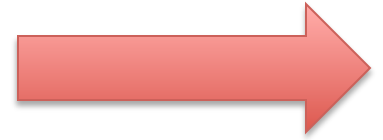
$$56.789 \times 10^{\boxed{3}}$$

$$567.89 \times 10^{\boxed{2}}$$

$$5678.9 \times 10^{\boxed{1}}$$

56789.

How are the decimal and power of 10 related?





Example Problems

3.45×10^4	4.001×10^6	2.9×10^{-2}
$\times 10^6$	$\times 10^3$	$\times 10^{-5}$

786.5×10^4	0.0097×10^{12}	8981.5×10^{-3}
$7.865 \times 10^?$	$9.7 \times 10^?$	$8.9815 \times 10^?$

