

# Scientific Notation Day 4

- ✓ 8.EE.3 Recognize and use scientific notation.

# Agenda

## Homework

- Multiplying/Dividing Scientific Notation Worksheet
- CN Summary
- AM

## Materials

- Math Notebook

## DO NOW

1. Take out homework
2. On your DESK:

Convert the following by filling in the blank

①  $0.00435 \times 10^5$

$4.35 \times 10^{\square}$

② **Solve:**

$3.45 \times 10^4 - 2.6 \times 10^2$



# Do Now

Convert the following by filling in the blank

①  $0.00435 \times 10^5$   
 $4.35 \quad \times 10^{\square}$

② Solve:

$$3.45 \times 10^4 - 2.6 \times 10^2$$

# Homework Review

[Adding/Subtracting WS](#)

# Review

## (Multiplying & Dividing Decimals)



# Set up Cornell Notes

- **Topic:** Scientific Notation – Multiplying & Dividing
- **EQ:** How do you multiply and divide numbers written in Scientific Notation?

Update Table of Contents:

11/16/15 (Pd 1 & 2)	Scientific Notation – Multiplying & Dividing
11/17/15 (Pd 4)	



Solve  $(4.81 \times 10^5)(7.3 \times 10^3)$

1. **Multiply** or Divide the DECIMAL parts ONLY

$$\begin{array}{r} \overset{2}{\overset{5}{4.81}} \times 10^5 \\ \times \quad \overset{X}{7.3} \times 10^3 \\ \hline \overset{1}{1443} \\ \overset{1}{33670} \\ \hline 35.113 \end{array}$$



**Solve  $(4.81 \times 10^5)(7.3 \times 10^3)$**

2. **ADD** the exponents on 10 if multiplying  
SUBTRACT the exponents on 10 if dividing

$$\begin{array}{r} 4.81 \times 10^5 \\ \times 7.3 \times 10^3 \\ \hline 35.113 \times 10^8 \end{array}$$





**Solve  $(4.81 \times 10^5)(7.3 \times 10^3)$**

4. If the answer is not in Scientific Notation,  
CONVERT it

**$35.113 \times 10^8$**    **$35.113 \times 10^9$**



**Solve  $(4.81 \times 10^5)(7.3 \times 10^3)$**

**ANSWER:**

**$3.5113 \times 10^9$**

# What are the steps to multiplying/dividing numbers in scientific notation?



1. Multiply or Divide the DECIMAL parts ONLY
2. ADD the exponents on 10 if multiplying  
SUBTRACT the exponents on 10 if dividing
3. If the answer is not in Scientific Notation,  
CONVERT it