CSS: Perform operations with numbers expressed in scientific notation; interpret scientific notation that has been generated by technology.

Name:\_\_\_\_\_ Date:\_\_\_\_\_ Per.:\_\_\_\_\_

## LT Pre Test

**Directions:** Show what you know about the following topic by completing the problems below. Make sure to show all work.

1. Define scientific notation.				
		2.0		
2. a) Compose the following decomposed number		3. Compare the numbers below by determining which number is larger		
10 + 4 =		a) 15 & 19		
b) Decompose the following number into its 10		b) 13 & 23		
and ones.		c) 5 & 10		
10 -		() 5 & 10		
17-		d) 45 & 47		
(K.NBT.1)		,	(1.NBT.2)	
4. Compare the following numbers using <, > or =.		5. Round the fo	ollowing number to the nearest	
-> 122 154		2) 10		
dj 123 154		a) 10		
b) 126 124		123 = 13	7= 256= 455=	
c) 456 256		b) 100		
		255 225		
a) 654 650		255= 225	5= 456= 675=	
(2.NBT.4) (3.NBT.1)				
6. Apply concepts of division and	7. Compare the following		8. Round the following numbers	
multiplication to solve the	numbers using <, > or =. to the indicate		to the indicated place value.	
problems below without a	a) 35 135			
calculator.	b) E12 E1		a) To the nearest ten: 125	
a) 20 × 10 -	0/545 54		b) To the nearest hundred: 1243	
b) 36 × 100 =	c) 654 76			
			c) To the nearest thousand: 5500	
c) 543 ÷ 100 =	d) 23 223			
d) 75 $\cdot$ 10 $-$ (4 NDT 4 5 NDT 4)		(A NRT 2)	(4.NBT.3)	
$u_{1} / 5 - 10 = (4.\text{NB}1.1, 5.\text{NB}1.1)$		(4.1001.5)	(	

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9. Suppose you have the number 3000, how could you explain this number using powers of 10 based on the number of 0's?			
Suppose you have the problem $3.45 \times 10$ , what happens to the decimal point when you perform this operation? Explain where the location of the decimal using powers of 10.			
Write the following powers of 10 as a power using while number exponents with a base of 10. 10=			
1000=			
1000000=			
0.001=	(E NDT 2)		
10. a) Write the following as a number: one and fifteen hundredths =			
b) What is the numerical name for the following number? 2.134			
c) Compare the numbers below using <, >, or = symbols.			
1.45 0.45			
2.342 2.341			
6.321 6.421			
11. Round the following numbers to the indicated	12. Write the following numbers in scientific		
place value.	notation.		
a) tenths			
1.23 =	a) 234,000,000,000 =		
b) thousandths	b) 12,000,000 =		
2.3156 =			
c) hundredths	c) 0.0000015 =		
3.45785 = (5.NBT.4)	d) 0.00000000002357 = (8.EE.3)		
13. Solve the following problems	14. You typed in a problem into your calculator		
a) $(1.23 \times 10^3)(3.45 \times 10^7) =$	and it spit out this as an answer:		
b) $\frac{3.5 \times 10^5}{2 \times 10^3} =$	4.55234E-12 What does this mean?		
c) $(5.4 \times 10^4) + (6.25 \times 10^3) =$ (8.EE.4)	(8.EE.4)		

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