

Scientific Notation

(with negative exponents)

Aug 29-8:47 AM

$$5 \times 10^5$$

Move decimal 

$$5 \times 10^{-5}$$

Move decimal 

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$$3.2 \times 10^{-6}$$

$$8.12 \times 10^{-3}$$

$$4 \times 10^{-2}$$

$$7.01 \times 10^{-5}$$

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$$4.36 \times 10^{-9}$$

$$5.7 \times 10^{-11}$$

$$1.6 \times 10^{-3}$$

Sep 10-12:12 PM

Move to JUST behind first non-zero #

0.00245

0.00009

0.00000063

0.05041

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0.0078

0.053

0.00044

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A and B Partners

Sep 4-11:20 AM

Negative Exponents for Powers of 10

10^9 1,000,000,000 m
 10^8 100,000,000 m
 10^7 10,000,000 m
 10^6 1,000,000 m
 10^5 100,000 m
 10^4 10,000 m
 10^3 1,000 m
 10^2 100 m
 10^1 10 m
 10^0 1 m
 10^{-1} 0.1 m
 10^{-2} 0.01 m
 10^{-3} 0.001 m
 10^{-4} 0.0001 m
 10^{-5} 0.00001 m
 10^{-6} 0.000001 m
 10^{-7} 0.0000001 m
 10^{-8} 0.00000001 m
 10^{-9} 0.000000001 m

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Important Vocabulary

reciprocal (dealing with fractions) - flip flopping a number to be the opposite

$7 \rightarrow \frac{7}{1} \rightarrow \frac{1}{7}$

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3
 4
 5
 8
 9
 11

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<http://www.youtube.com/watch?v=6LG3aDd4WJY>
<http://www.youtube.com/watch?v=hbRdNOc9FXU>
<http://www.youtube.com/watch?v=bhofN1xX6u0>

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Why do I need to know this?!?



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Name _____ Date _____

1. Complete the chart.

Power of Ten	Expanded Form	Product
10^5		
10^4		
10^3		
10^2		
10^1		
10^0		

1) What patterns do you see?

2) What would 10^6 be? _____

3) Predict what 10^9 would be. _____

4) Following the pattern in the chart, what is 10^0 ? _____
 Based on this pattern, what do you predict that 10^{-1} would be? _____

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5. Complete the chart

Power of Ten	Expanded Form	Product	
		Decimals	Fractions
10^0			
10^{-1}			
10^{-2}			
10^{-3}			
10^{-4}			
10^{-5}			

6) What patterns do you see?

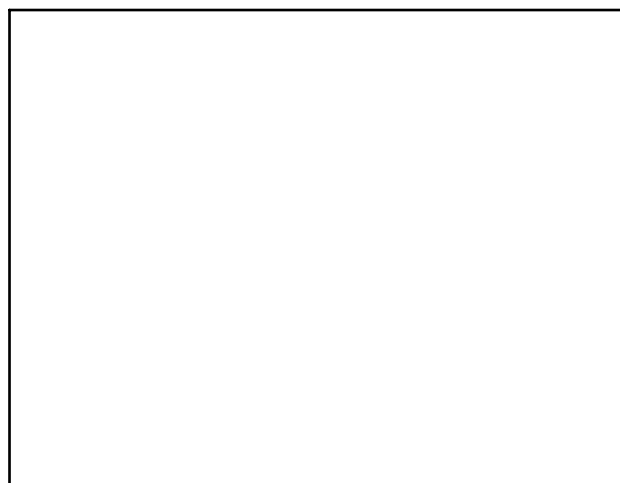
7) What would 10^{-6} be?

8) Predict what 10^{-9} would be. _____

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Sep 4-11:38 AM



Jan 6-9:47 AM