

Scientific	Notation:	Fractional	Evnonent

Name		
Date		
longhand	Scientific I	Notation
	4.2 x 1	0 ⁻¹²
,300,000,000,000		
00 * 465,000,000		
0042 ÷ 6,000,000		
	6.258 x	10 ¹⁶
0000000000000000000001		
.0002 * .0002		
		•
00		
middle	large	est
w your steps: (3.2 x	10 ⁶) ²	
<u> </u>		
ow your steps: (1.6 x	10 ⁴)(1.2 × 10 ⁵)
, , , , , , , , , , , , , , , , , , ,	χ	,
w your steps: (1.65	v 10 ⁻¹² \/3 2 v 1	0 ⁻⁵ \
W your steps: (1.00	X 10 /(3.2 X 1	"
	4051/4 0 40-2	is.
w your steps: (3.2 x	10°)(1.2 x 10°	,
4 3	Г	
1.65 x 10 ³		
1.25 x 10⁴	L	
n and in longhand: (1.1 x 10 ⁶) ⁻²	
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	Everessies	Cimmildiad

1.	Simplify if necessary, and then rewrite each number to fill in
	the blank:

longhand	Scientific Notation
	4.2 x 10 ⁻¹²
265,300,000,000,000	
800 * 465,000,000	
.00042 ÷ 6,000,000	
	6.258 x 10 ¹⁶
.00000000000000000001	

2.	Order from la	gest to smallest	1.26 x 10 ¹²	; 1.25 x 10 ¹² ;	126,000,000,000
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smallest	middle	largest

3.	Evaluate the	expression; write y	our answer in scientific	c notation. Show your step	ps: (3.2 x 10 ⁶) ²

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- 1					
L					

4. Evaluate the expression; write your answer in scientific notation. Show your

5. Evaluate the expression; write your answer in scientific notation. Show your

6. Evaluate the expression; write your answer in scientific notation. Show your

	•	•	-		•	•	•	,,	•
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7. Evaluate this expression; write your answer in scientific notation.

8. Evaluate this expression; write your answer in both scientific notation and in

STEPS						
		Scientific Notation	Longhand			

9. Simplify these expressions:

Expression	Simplified
9 ^{-1/2}	
66 - 64 ^{1/3}	
24 * 81 ^{-1/4}	
9 ^{1/2} * 16 ^{1/4}	

10. Light travels at approximately 3.0 x 10⁸ m/sec. How far will it travel in a week?

STEPS			
		Scientific Notation	Longhand