10/11 H.W.

Scientific Notation → Regular Notation

If exponent is Negative
Move decimal to the Left
Add zeros where needed.

If exponent is Positive
Move decimal to the Right
Add zeros where needed.

Scientific Notation	How to Change	Regular Notation
7.5×10^{5}	Exponent is positive 5. Move the decimal 5 places to the right	750,000.
3.8×10^{4}	Exponent is positive 4. Move the decimal 4 places to the right	38,000.
4.2×10^{-3}	Exponent is Negative 3. Move the decimal 3 places to the left.	.0042
7.51×10^{-5}	Exponent is Negative 5. Move the decimal 5 places to the left.	.0000751

★Choose 4 from each Column.★

PRACTICE:

Change from Regular Notation to Scientific Notation:

1.) 45,000 _____

2.) 9,000,000 _____

3.) 7,450 _____

4.) .0000378 _____

5.) .05 _____

6.) 670,400 _____

7.) 7,070,000,000 _____

8.) .00000089 _____

9.) .18900097 _____

10.) 570,000,000 _____

Change from Scientific Notation to Regular Notation:

1.) 9.46×10^{-6} _____

2.) 2.5×10^{3} _____

3.) 1.6×10^{-2} _____

4.) 4×10^{5} _____

5.) 7.25×10^{4} _____

6.) 3.2456×10^{-8} _____

7.) 6×10^{-3} _____

8.) 9.7×10^{7} _____

9.) 5.06×10^{-4} _____

10.) 8×10^{2} _____

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STUDENT NAME: _____ DATE: _____

SCIENTIFIC NOTATION

CONVERT EACH NUMBER IN SCIENTIFIC NOTATION TO REGULAR NOTATION

If exponent is Negative
Move decimal to the Left
Add zeros where needed.

If exponent is Positive
Move decimal to the Right
Add zeros where needed.

1. 2.47×10^{-3} _____
2. 9.3×10^{7} _____
3. 8.5×10^{-5} _____
4. 2.07×10^{6} _____
5. 7×10^{-8} _____
6. 3×10^{2} _____
7. 4.5×10^{-5} _____
8. 5.5×10^{5} _____
9. 6.3×10^{-1} _____
10. 1.98×10^{4} _____
11. 2.4×10^{-5} _____
12. 9.2×10^{7} _____

CONVERT EACH NUMBER IN REGULAR NOTATION TO SCIENTIFIC NOTATION

If Decimal is moved left
Exponent will be positive

If Decimal is moved to Right
Exponent will be negative

1. 0.0024 _____
2. 5,604 _____
3. 693.75 _____
4. 0.087 _____
5. 8,550,000 _____
6. 12,000,000 _____
7. 0.0000035 _____
8. 45,995 _____
9. 754.256 _____
10. 0.0088 _____
11. 1.8907 _____
12. 25,009 _____