

Worksheet 1-7 A (8.EE.4)

1. When I am multiplying numbers in scientific notation I have to _____ the coefficient (leading number) and _____ the exponents.
2. When I am dividing numbers in scientific notation I have to _____ the coefficient (leading number) and _____ the exponents.

Solve the problems below. Be sure your answer is in CORRECT scientific notation.

3. $(7.66 \times 10^{-3})(1.05 \times 10^{-4}) =$

4. $(2.48 \times 10^5)(4.1 \times 10^4) =$

Uh oh...the coefficient in your answer isn't between 1 and 10. Your coefficient needs to go ↓
so your exponent needs to go ↑

5. $\frac{(9 \times 10^5)}{(6 \times 10^3)} =$

6. $\frac{(4 \times 10^8)}{(8 \times 10^3)} =$

7. $(9 \times 10^4)(8.1 \times 10^3) =$

8. $(2.2 \times 10^{-4})(9 \times 10^{-3}) =$

9. $(2.1 \times 10^4)(3.5 \times 10^5) =$

10. $\frac{(3 \times 10^2)}{(1.25 \times 10^6)} =$

Directions: Match the incorrect scientific notation with the correct scientific notation.

1. _____ 0.26×10^{-2}

2. _____ 30.1×10^4

3. _____ 62.5×10^{-6}

4. _____ 781.6×10^{-4}

5. _____ 9608.0×10^3

6. _____ 0.0156×10^{-5}

7. _____ 305.4×10^5

8. _____ 0.44×10^2

9. _____ 59.004×10^4

10. _____ 0.008×10^{-1}

A. 3.01×10^5

B. 7.816×10^{-6}

C. 4.4×10^1

D. 9.608×10^6

E. 5.9004×10^3

F. 2.6×10^{-3}

G. 1.56×10^{-3}

H. 6.25×10^{-7}

I. 4.4×10^3

J. 7.816×10^{-2}

K. 3.054×10^3

L. 5.9004×10^5

M. 9.608×10^0

N. 8×10^{-4}

O. 3.054×10^7

P. 2.6×10^{-1}

Q. 3.01×10^3

R. 1.56×10^{-7}

S. 8×10^2

T. 6.25×10^{-5}