

# Multiplying Scientific Notation <sup>10/5</sup>

## Steps

- ① Multiply the coefficients (the # before 10)
- ② Add the exponents
- \* ③ Make sure answer is in Scientific Notation.  
(Between 1 and 10)

ex)  $32.6 \times 10^4 = 3.26 \times 10^5$

\* Move decimal  
left → exponent  
gets larger \*

Oct 1-7:35 AM

## Examples

①  $(3.2 \times 10^4) \cdot (5.1 \times 10^8)$

$$(3.2 \times 5.1) = 16.32$$

$$10^4 \cdot 10^8 = 10^{12}$$

$$16.32 \times 10^{12}$$

$$\boxed{1.632 \times 10^{13}}$$

## Calc. buttons

3.2 EE 4  
(above?)

[x]

5.1 EE 8

Oct 1-9:27 AM

$$\textcircled{2} (6.3 \times 10^2)(7.9 \times 10^7)$$

$$(6.3 \times 7.9) = 49.77$$

$$10^2 \cdot 10^7 = 10^9$$

$$49.77 \times 10^9$$

$$\downarrow$$

$$4.977 \times 10^{10}$$

$$\textcircled{2a} (6.3 \times 10^2)(7.9 \times 10^3)$$

$$6.3 \times 10^2 \times 7.9 \times 10^3$$

$$4,977,000$$

$$2^{\text{nd}} \rightarrow 5$$

$$4.977 \times 10^6$$

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$$\textcircled{3} (4.75 \times 10^{-10})(3.8 \times 10^{-2})$$

$$(4.75 \times 3.8) = 18.05$$

$$10^{-10} \cdot 10^{-2} = 10^{-12}$$

$$18.05 \times 10^{-12}$$

$$1.805 \times 10^{-11}$$

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$$(5.7 \times 10^8)(3.6 \times 10^3)$$

$$(5.7 \times 3.6) = 20.52$$

$$10^8 \cdot 10^3 = 10^{11}$$

$$20.52 \times 10^{11}$$

$$2.052 \times 10^{12}$$

Sep 30-10:20 AM

on own

$$\textcircled{1} (5.73 \times 10^{\textcircled{3}})(8.5 \times 10^{\textcircled{8}})$$

$$48.705 \times 10^{11}$$

$$4.8705 \times 10^{12}$$

$$\textcircled{2} (2.4 \times 10^{\textcircled{5}})(3.6 \times 10^{\textcircled{-8}})$$

$$8.64 \times 10^{-3}$$

Oct 1-9:39 AM