

Student Name: \_\_\_\_\_

Score: \_\_\_\_\_

**Multiplying Numbers in Scientific Notation**

*Example:*  $(4.1 \times 10^{-2})(9.5 \times 10^{-3})$

$$\begin{aligned} &(4.1 \times 10^{-2})(9.5 \times 10^{-3}) \\ &= (4.1 \times 9.5) \times (10^{-2} \times 10^{-3}) \\ &= 38.95 \times 10^{-2-3} \\ &= 38.95 \times 10^{-5} \\ &= 3.895 \times 10^{-4} \end{aligned}$$

Answer:  **$3.895 \times 10^{-4}$**

$(3 \times 10^{-1})(7 \times 10^{-4})$

Answer:

$(2.7 \times 10^{-5})(1.6 \times 10^{-5})$

Answer:

$(8.25 \times 10^{-6})(3.74 \times 10^{-2})$

Answer:

$(4.805 \times 10^{-3})(3.753 \times 10^{-7})$

Answer:

$(2.64 \times 10^{-4})(1.9534 \times 10^{-9})$

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### Answers

<p><i>Example:</i> <math>(4.1 \times 10^{-2})(9.5 \times 10^{-3})</math></p> $(4.1 \times 10^{-2})(9.5 \times 10^{-3})$ $= (4.1 \times 9.5) \times (10^{-2} \times 10^{-3})$ $= 38.95 \times 10^{-2-3}$ $= 38.95 \times 10^{-5}$ $= 3.895 \times 10^{-4}$	$(3 \times 10^{-1})(7 \times 10^{-4})$
Answer: $3.895 \times 10^{-4}$	Answer: $2.1 \times 10^{-4}$
$(2.7 \times 10^{-5})(1.6 \times 10^{-5})$	$(8.25 \times 10^{-6})(3.74 \times 10^{-2})$
Answer: $4.32 \times 10^{-10}$	Answer: $3.0855 \times 10^{-7}$
$(4.805 \times 10^{-3})(3.753 \times 10^{-7})$	$(2.64 \times 10^{-4})(1.9534 \times 10^{-9})$
Answer: $1.8033165 \times 10^{-9}$	Answer: $5.156976 \times 10^{-13}$