

Student Name: _____

Score: _____

Multiplying Numbers in Scientific Notation

Example: $(4.1 \times 10^2)(9.5 \times 10^3)$

$$\begin{aligned} &(4.1 \times 10^2)(9.5 \times 10^3) \\ &= (4.1 \times 9.5) \times (10^2 \times 10^3) \\ &= 38.95 \times 10^{2+3} \\ &= 38.95 \times 10^5 \\ &= 3.895 \times 10^6 \end{aligned}$$

Answer: **3.895×10^6**

$(6 \times 10^4)(8 \times 10^5)$

Answer:

$(1.4 \times 10^3)(5.2 \times 10^4)$

Answer:

$(8.102 \times 10^6)(1.3 \times 10^1)$

Answer:

$(7.538 \times 10^0)(1.952 \times 10^7)$

Answer:

$(5.21 \times 10^4)(9.5 \times 10^6)$

Answer:

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Answers

<p><i>Example:</i> $(4.1 \times 10^2)(9.5 \times 10^3)$</p> $(4.1 \times 10^2)(9.5 \times 10^3)$ $= (4.1 \times 9.5) \times (10^2 \times 10^3)$ $= 38.95 \times 10^{2+3}$ $= 38.95 \times 10^5$ $= 3.895 \times 10^6$	$(6 \times 10^4)(8 \times 10^5)$
Answer: 3.895×10^6	Answer: 4.8×10^{10}
$(1.4 \times 10^3)(5.2 \times 10^4)$	$(8.102 \times 10^6)(1.3 \times 10^1)$
Answer: 7.28×10^7	Answer: 1.05326×10^8
$(7.538 \times 10^0)(1.952 \times 10^7)$	$(5.21 \times 10^4)(9.5 \times 10^6)$
Answer: 1.4714176×10^8	Answer: 4.9495×10^{11}