



# SCIENTIFIC NOTATION

Name \_\_\_\_\_

Score \_\_\_\_\_

SN:30

**Simplify and express the answer in scientific notation.**

$$(9 \times 10^6) (2.5 \times 10^3)$$

$$= (9 \times 2.5) (10^6 \times 10^3)$$

$$= (22.5) (10^9)$$

$$= \mathbf{2.25 \times 10^{10}}$$

$$\frac{2.1 \times 10^{-7}}{0.3 \times 10^3}$$

$$= (7) (10^{-7-3})$$

$$= \mathbf{7 \times 10^{-10}}$$

1)  $(6.12 \times 10^5) (2.3 \times 10^2)$

2)  $\frac{9.5 \times 10^8}{5 \times 10^3}$

3)  $(8 \times 10^8) (9 \times 10^9)$

4)  $\frac{2.4 \times 10^{-4}}{0.3 \times 10^6}$

5)  $(1.6 \times 10^{-4}) (5 \times 10^{-5})$

6)  $\frac{9.6 \times 10^4}{0.2 \times 10^6}$

7)  $(7.7 \times 10^8) (3.4 \times 10^2)$

8)  $\frac{4.5 \times 10^9}{0.9 \times 10^{-5}}$



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## Answer key

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Simplify and express the answer in scientific notation.

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$$= (7) (10^{-7-3})$$

$$= \mathbf{7 \times 10^{-10}}$$

1)  $(6.12 \times 10^5) (2.3 \times 10^2)$

$$\mathbf{1.4076 \times 10^8}$$

2)  $\frac{9.5 \times 10^8}{5 \times 10^3}$

$$\mathbf{1.9 \times 10^5}$$

3)  $(8 \times 10^8) (9 \times 10^9)$

$$\mathbf{7.2 \times 10^{18}}$$

4)  $\frac{2.4 \times 10^{-4}}{0.3 \times 10^6}$

$$\mathbf{8 \times 10^{-10}}$$

5)  $(1.6 \times 10^{-4}) (5 \times 10^{-5})$

$$\mathbf{8 \times 10^{-9}}$$

6)  $\frac{9.6 \times 10^4}{0.2 \times 10^6}$

$$\mathbf{4.8 \times 10^{-1}}$$

7)  $(7.7 \times 10^8) (3.4 \times 10^2)$

$$\mathbf{2.618 \times 10^{11}}$$

8)  $\frac{4.5 \times 10^9}{0.9 \times 10^{-5}}$

$$\mathbf{5 \times 10^{14}}$$