



# SCIENTIFIC NOTATION

Name \_\_\_\_\_

Score \_\_\_\_\_

SN:29

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

$$(7.2 \times 10^7) (1.8 \times 10^5)$$

$$= (7.2 \times 1.8) (10^7 \times 10^5)$$

$$= (12.96) (10^{12})$$

$$= \mathbf{1.296 \times 10^{13}}$$

$$\frac{8.5 \times 10^6}{5 \times 10^4}$$

$$5 \times 10^4$$

$$= (1.7) (10^{6-4})$$

$$= \mathbf{1.7 \times 10^2}$$

1)  $\frac{2.8 \times 10^7}{0.2 \times 10^4}$

2)  $(6 \times 10^3) (7 \times 10^4)$

3)  $(3.01 \times 10^{-4}) (2 \times 10^{-8})$

4)  $\frac{6.6 \times 10^2}{1.1 \times 10^{-7}}$

5)  $(4.5 \times 10^9) (5.4 \times 10^9)$

6)  $\frac{9 \times 10^{10}}{0.3 \times 10^3}$

7)  $\frac{8.4 \times 10^{-6}}{4 \times 10^{-1}}$

8)  $(1.2 \times 10^{-4}) (4 \times 10^3)$



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## Answer key

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1)  $\frac{2.8 \times 10^7}{0.2 \times 10^4}$

$$\mathbf{1.4 \times 10^4}$$

2)  $(6 \times 10^3) (7 \times 10^4)$

$$\mathbf{4.2 \times 10^8}$$

3)  $(3.01 \times 10^{-4}) (2 \times 10^{-8})$

$$\mathbf{6.02 \times 10^{-12}}$$

4)  $\frac{6.6 \times 10^2}{1.1 \times 10^{-7}}$

$$\mathbf{6 \times 10^9}$$

5)  $(4.5 \times 10^9) (5.4 \times 10^9)$

$$\mathbf{2.43 \times 10^{19}}$$

6)  $\frac{9 \times 10^{10}}{0.3 \times 10^3}$

$$\mathbf{3 \times 10^8}$$

7)  $\frac{8.4 \times 10^{-6}}{4 \times 10^{-1}}$

$$\mathbf{2.1 \times 10^{-5}}$$

8)  $(1.2 \times 10^{-4}) (4 \times 10^3)$

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