



SCIENTIFIC NOTATION

Name _____

Score _____

SN:28

Simplify and express the answer in scientific notation.

$$(3.2 \times 10^5) (2 \times 10^2)$$

$$= (3.2 \times 2) (10^5 \times 10^2)$$

$$= (3.2 \times 2) (10^7)$$

$$= \mathbf{6.4 \times 10^7}$$

$$\frac{1.2 \times 10^6}{4 \times 10^4}$$

$$4 \times 10^4$$

$$= (0.3) (10^{6-4})$$

$$= \mathbf{3 \times 10^1}$$

1) $(2.1 \times 10^4) (4 \times 10^5)$

2) $(5.8 \times 10^{-1}) (6.2 \times 10^{-2})$

3) $\frac{1.6 \times 10^8}{2 \times 10^6}$

4) $(9 \times 10^5) (1.4 \times 10^8)$

5) $\frac{8.1 \times 10^4}{9 \times 10^5}$

6) $(8.9 \times 10^2) (1.6 \times 10^2)$

7) $\frac{3.2 \times 10^{-2}}{1.6 \times 10^{-5}}$

8) $\frac{3.5 \times 10^8}{0.5 \times 10^6}$



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Answer key

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$$(3.2 \times 10^5) (2 \times 10^2)$$

$$= (3.2 \times 2) (10^5 \times 10^2)$$

$$= (3.2 \times 2) (10^7)$$

$$= \mathbf{6.4 \times 10^7}$$

$$\frac{1.2 \times 10^6}{4 \times 10^4}$$

$$= (0.3) (10^{6-4})$$

$$= \mathbf{3 \times 10^1}$$

1) $(2.1 \times 10^4) (4 \times 10^5)$

$$\mathbf{8.4 \times 10^9}$$

2) $(5.8 \times 10^{-1}) (6.2 \times 10^{-2})$

$$\mathbf{3.596 \times 10^{-2}}$$

3) $\frac{1.6 \times 10^8}{2 \times 10^6}$

$$\mathbf{8 \times 10^1}$$

4) $(9 \times 10^5) (1.4 \times 10^8)$

$$\mathbf{1.26 \times 10^{14}}$$

5) $\frac{8.1 \times 10^4}{9 \times 10^5}$

$$\mathbf{9 \times 10^{-2}}$$

6) $(8.9 \times 10^2) (1.6 \times 10^2)$

$$\mathbf{1.424 \times 10^5}$$

7) $\frac{3.2 \times 10^{-2}}{1.6 \times 10^{-5}}$

$$\mathbf{2 \times 10^3}$$

8) $\frac{3.5 \times 10^8}{0.5 \times 10^6}$

$$\mathbf{7 \times 10^2}$$