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

## Scientific Notation

Mul/Div: MS2

Simplify and express in scientific notation:

Example 1

$$\frac{5 \times 10^9}{16 \times 10^6} = \frac{5}{16} \times 10^9 \times 10^{-6}$$

$$= \mathbf{3.125 \times 10^2}$$

Example 2

$$(7 \times 10^8)(9 \times 10^4)$$

$$(7 \times 10^8)(9 \times 10^4) = 63 \times 10^8 \times 10^4$$

$$= 63 \times 10^{12}$$

$$= \mathbf{6.3 \times 10^{13}}$$

Simplify each problem.

1)  $\frac{21 \times 10^{-7}}{4 \times 10^2}$

Answer : \_\_\_\_\_

3)  $(2 \times 10^6)(5 \times 10^3)$

Answer : \_\_\_\_\_

5)  $\frac{9 \times 10^3}{4 \times 10^{-5}}$

Answer : \_\_\_\_\_

7)  $(4 \times 10)(13 \times 10^5)$

Answer : \_\_\_\_\_

8)  $\frac{27 \times 10^4}{10 \times 10^8}$

Answer : \_\_\_\_\_

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\_\_\_\_\_

 $\mathbf{9.6 \times 10^{-13}}$ 

3)  $(2 \times 10^6)(5 \times 10^2)$

Answer : \_\_\_\_\_

 $\mathbf{1.625 \times 10^{-4}}$ 

5)  $\frac{9 \times 10^3}{4 \times 10^{-5}}$

Answer :  $\mathbf{2.25 \times 10^8}$ Answer :  $\mathbf{1.8 \times 10^{-3}}$ 

7)  $(4 \times 10)(13 \times 10^5)$

Answer :  $\mathbf{5.2 \times 10^7}$ 

8)  $\frac{27 \times 10^4}{10 \times 10^8}$

Answer :  $\mathbf{2.7 \times 10^{-4}}$