

Name : \_\_\_\_\_

## Multiplying and Dividing in Scientific Notations

Simplify. Write your answers in scientific notations.

①  $(0.9 \times 10^4) (1.14 \times 10^7)$

⑥  $\frac{6.25 \times 10^6}{12.5 \times 10^{-8}}$

②  $(1.12 \times 10^{-5}) (3 \times 10^7)$

⑦  $\frac{5 \times 10^7}{2.63 \times 10^{-2}}$

③  $(2.15 \times 10^{-5}) (1.4 \times 10^8)$

⑧  $\frac{4.2 \times 10^4}{3.5 \times 10^{-4}}$

④  $(2 \times 10^4) (8.21 \times 10^3)$

⑨  $\frac{7.1 \times 10^6}{8.2 \times 10^5}$

⑤  $(3.5 \times 10^8) (7.1 \times 10^{-9})$

⑩  $\frac{5.6 \times 10^{-3}}{3.7 \times 10^5}$

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# Multiplying and Dividing in Scientific Notations

## Answers

$$\textcircled{1} \quad (0.9 \times 10^4) (1.14 \times 10^7)$$

$$= 1.026 \times 10^{11}$$

$$\textcircled{2} \quad (1.12 \times 10^{-5}) (3 \times 10^7)$$

$$= 3.36 \times 10^2$$

$$\textcircled{3} \quad (2.15 \times 10^{-5}) (1.4 \times 10^8)$$

$$= 3.01 \times 10^3$$

$$\textcircled{4} \quad (2 \times 10^4) (8.21 \times 10^3)$$

$$= 1.642 \times 10^8$$

$$\textcircled{5} \quad (3.5 \times 10^8) (7.1 \times 10^{-9})$$

$$= 2.485 \times 10^0$$

$$\textcircled{6} \quad \frac{6.25 \times 10^6}{12.5 \times 10^{-8}}$$

$$= 5 \times 10^{13}$$

$$\textcircled{7} \quad \frac{5 \times 10^7}{2.63 \times 10^{-2}}$$

$$= 1.901 \times 10^9$$

$$\textcircled{8} \quad \frac{4.2 \times 10^4}{3.5 \times 10^{-4}}$$

$$= 1.2 \times 10^8$$

$$\textcircled{9} \quad \frac{7.1 \times 10^6}{8.2 \times 10^5}$$

$$= 8.658 \times 10^0$$

$$\textcircled{10} \quad \frac{5.6 \times 10^{-3}}{3.7 \times 10^5}$$

$$= 1.513 \times 10^{-8}$$