

Name: _____

Date: _____ Score: _____

Operations with Scientific Notation

Perform the following operations and express the answers in scientific notation.

1) $(9.70 \times 10^6) + (8.3 \times 10^5)$

2) $(1.33 \times 10^5) - (4.9 \times 10^4)$

3) $(1.08 \times 10^{-3})(9.3 \times 10^{-3})$

4) $(3.4 \times 10^2) + (4.57 \times 10^3)$

5) $(6 \times 10^3)(9.91 \times 10^0)$

6) $(5.21 \times 10^{-5})^2$

7) $\frac{9.60 \times 10^7}{1.60 \times 10^4}$

8) $(2.7 \times 10^8)(8.9 \times 10^4)$

9) $\frac{7.8 \times 10^3}{1.2 \times 10^4}$

10) $(9.1 \times 10^{-10}) \times (3.6 \times 10^{-20})$

Name: _____

Date: _____ Score: _____

Operations with Scientific Notation

Answers

1) $(9.70 \times 10^6) + (8.3 \times 10^5)$

$$\underline{1.053 \times 10^7}$$

2) $(1.33 \times 10^5) - (4.9 \times 10^4)$

$$\underline{8.4 \times 10^4}$$

3) $(1.08 \times 10^{-3})(9.3 \times 10^{-3})$

$$\underline{1.0044 \times 10^{-5}}$$

4) $(3.4 \times 10^2) + (4.57 \times 10^3)$

$$\underline{4.91 \times 10^3}$$

5) $(6 \times 10^3)(9.91 \times 10^0)$

$$\underline{5.946 \times 10^4}$$

6) $(5.21 \times 10^{-5})^2$

$$\underline{2.714 \times 10^{-9}}$$

7) $\frac{9.60 \times 10^7}{1.60 \times 10^4}$

$$\underline{6.00 \times 10^3}$$

8) $(2.7 \times 10^8)(8.9 \times 10^4)$

$$\underline{2.403 \times 10^{13}}$$

9) $\frac{7.8 \times 10^3}{1.2 \times 10^4}$

$$\underline{6.5 \times 10^{-1}}$$

10) $(9.1 \times 10^{-10}) \times (3.6 \times 10^{-20})$

$$\underline{3.276 \times 10^{-29}}$$