

## Operations With Scientific Notation

**Simplify. Write each answer in scientific notation.**

1)  $(1.08 \times 10^{-3})(9.3 \times 10^{-3})$

$1.004 \times 10^{-5}$

2)  $(2 \times 10^{-4})(8.1 \times 10^{-1})$

$1.62 \times 10^{-4}$

3)  $(2.32 \times 10^{-6})(4 \times 10^{-5})$

$9.28 \times 10^{-11}$

4)  $(3.48 \times 10^3)(9.8 \times 10^4)$

$3.41 \times 10^8$

5)  $(7.1 \times 10^{-5})(6.7 \times 10^{-6})$

$4.757 \times 10^{-10}$

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

$5.946 \times 10^4$

7)  $\frac{7.1 \times 10^6}{8.2 \times 10^1}$

$8.659 \times 10^4$

8)  $\frac{5.4 \times 10^{-1}}{3.4 \times 10^1}$

$1.588 \times 10^{-2}$

9)  $\frac{4 \times 10^4}{3.63 \times 10^{-4}}$

$1.102 \times 10^8$

10)  $\frac{9 \times 10^{-5}}{9.24 \times 10^{-6}}$

$9.74 \times 10^0$

11)  $\frac{8.42 \times 10^3}{5 \times 10^2}$

$1.684 \times 10^1$

12)  $\frac{8.9 \times 10^6}{8.4 \times 10^6}$

$1.06 \times 10^0$

13)  $(8.9 \times 10^5)^4$

$6.274 \times 10^{23}$

14)  $(4 \times 10^{-5})^{-6}$

$2.441 \times 10^{26}$

$$15) (6 \times 10^{-5})^3$$
$$2.16 \times 10^{-13}$$

$$16) (6.3 \times 10^2)^{-6}$$
$$1.599 \times 10^{-17}$$

$$17) (5.21 \times 10^{-5})^2$$
$$2.714 \times 10^{-9}$$

$$18) (2.4 \times 10^{-5})^4$$
$$3.318 \times 10^{-19}$$

$$19) \frac{3 \times 10^{-2}}{8 \times 10^{-1}}$$
$$3.75 \times 10^{-2}$$

$$20) \frac{4.1 \times 10^4}{1.28 \times 10^{-5}}$$
$$3.203 \times 10^9$$

$$21) \frac{1.91 \times 10^3}{5 \times 10^{-4}}$$
$$3.82 \times 10^6$$

$$22) \frac{1.62 \times 10^{-6}}{5.3 \times 10^6}$$
$$3.057 \times 10^{-13}$$

$$23) \frac{3.59 \times 10^{-2}}{2.22 \times 10^1}$$
$$1.617 \times 10^{-3}$$

$$24) (8.8 \times 10^{-5})^{-5}$$
$$1.895 \times 10^{20}$$

$$25) \frac{6 \times 10^{-3}}{8.08 \times 10^{-2}}$$
$$7.426 \times 10^{-2}$$

$$26) (3.5 \times 10^{-2})(9 \times 10^4)$$
$$3.15 \times 10^3$$

$$27) (8.8 \times 10^2)(2.25 \times 10^{-2})$$
$$1.98 \times 10^1$$

$$28) \frac{1.18 \times 10^{-4}}{3 \times 10^0}$$
$$3.933 \times 10^{-5}$$