

## 6-3 Scientific Notation - Multiplying &amp; Dividing (ver2)\_hw

Period \_\_\_\_\_

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

1)  $(2.2 \times 10^{-2})(4.5 \times 10^{-1})$

2)  $(0.974 \times 10^{-8})(8.37 \times 10^{-10})$

3)  $(4 \times 10^0)(1.2 \times 10^{-3})$

4)  $(8.22 \times 10^3)(0.946 \times 10^{-3})$

5)  $(6.57 \times 10^{-3})(3.9 \times 10^4)$

6)  $(9 \times 10^{-4})(8.6 \times 10^8)$

7)  $(2.4 \times 10^{-2})(3 \times 10^{10})$

8)  $(5 \times 10^3)(7.7 \times 10^1)$

9)  $(8.7 \times 10^{-3})(5 \times 10^{-7})$

10)  $(0.46 \times 10^{-4})(7 \times 10^{-8})$

11)  $(5.9 \times 10^4)(2.2 \times 10^8)$

12)  $(3.1 \times 10^{-8})(7.62 \times 10^{-7})$

13)  $(6.7 \times 10^1)(2.38 \times 10^{10})$

14)  $(7.8 \times 10^1)(1.5 \times 10^{-4})$

15)  $(2.6 \times 10^{-2})(12 \times 10^8)$

16)  $(8 \times 10^{-10})(6 \times 10^2)$

$$17) \frac{7 \times 10^{-4}}{2.7 \times 10^1}$$

$$18) \frac{8 \times 10^8}{7.36 \times 10^{10}}$$

$$19) \frac{2.66 \times 10^9}{2.1 \times 10^{-7}}$$

$$20) \frac{9 \times 10^{-2}}{1.9 \times 10^{-3}}$$

$$21) \frac{6.6 \times 10^{-1}}{7.1 \times 10^0}$$

$$22) \frac{8.4 \times 10^1}{8 \times 10^{-10}}$$

$$23) \frac{8.26 \times 10^{-7}}{5.8 \times 10^{-7}}$$

$$24) \frac{4.2 \times 10^7}{130 \times 10^7}$$

$$25) \frac{0.86 \times 10^9}{7.33 \times 10^6}$$

$$26) \frac{5 \times 10^{-1}}{6.9 \times 10^3}$$

$$27) \frac{9.4 \times 10^3}{0.082 \times 10^{-4}}$$

$$28) \frac{7 \times 10^{-1}}{8.6 \times 10^2}$$

$$29) \frac{5 \times 10^{-4}}{2.4 \times 10^{-9}}$$

$$30) \frac{8.3 \times 10^2}{9 \times 10^{-2}}$$

$$31) \frac{4.1 \times 10^{-10}}{9.3 \times 10^1}$$

$$32) \frac{3.13 \times 10^1}{1.4 \times 10^8}$$

Answers to 6-3 Scientific Notation - Multiplying & Dividing (ver2)\_hw

- |                            |                            |                             |                             |
|----------------------------|----------------------------|-----------------------------|-----------------------------|
| 1) $9.9 \times 10^{-3}$    | 2) $8.152 \times 10^{-18}$ | 3) $4.8 \times 10^{-3}$     | 4) $7.776 \times 10^0$      |
| 5) $2.562 \times 10^2$     | 6) $7.74 \times 10^5$      | 7) $7.2 \times 10^8$        | 8) $3.85 \times 10^5$       |
| 9) $4.35 \times 10^{-9}$   | 10) $3.22 \times 10^{-12}$ | 11) $1.298 \times 10^{13}$  | 12) $2.362 \times 10^{-14}$ |
| 13) $1.595 \times 10^{12}$ | 14) $1.17 \times 10^{-2}$  | 15) $3.12 \times 10^7$      | 16) $4.8 \times 10^{-7}$    |
| 17) $2.593 \times 10^{-5}$ | 18) $1.087 \times 10^{-2}$ | 19) $1.267 \times 10^{16}$  | 20) $4.737 \times 10^1$     |
| 21) $9.296 \times 10^{-2}$ | 22) $1.05 \times 10^{11}$  | 23) $1.424 \times 10^0$     | 24) $3.231 \times 10^{-2}$  |
| 25) $1.173 \times 10^2$    | 26) $7.246 \times 10^{-5}$ | 27) $1.146 \times 10^9$     | 28) $8.14 \times 10^{-4}$   |
| 29) $2.083 \times 10^5$    | 30) $9.222 \times 10^3$    | 31) $4.409 \times 10^{-12}$ | 32) $2.236 \times 10^{-7}$  |