

Operations with Scientific Notation

How to Add, Subtract, Multiply, and Divide with Scientific Notation

1. Practice simplifying operations involving scientific notation by simplifying each.

a. $2.5 \times 10^3 + 4.3 \times 10^3$

$$2.5 \times 10^3 + 4.3 \times 10^3 = (2.5 + 4.3) \times 10^3 = 6.8 \times 10^3$$

b. $7.1 \times 10^2 + 1.2 \times 10^2$

$$7.1 \times 10^2 + 1.2 \times 10^2 = (7.1 + 1.2) \times 10^2 = 8.3 \times 10^2$$

c. $3.4 \times 10^4 - 1.1 \times 10^4$

$$3.4 \times 10^4 - 1.1 \times 10^4 = (3.4 - 1.1) \times 10^4 = 2.3 \times 10^4$$

d. $5.6 \times 10^3 - 2.3 \times 10^3$

$$5.6 \times 10^3 - 2.3 \times 10^3 = (5.6 - 2.3) \times 10^3 = 3.3 \times 10^3$$

e. $1.2 \times 10^5 + 3.4 \times 10^5$

$$1.2 \times 10^5 + 3.4 \times 10^5 = (1.2 + 3.4) \times 10^5 = 4.6 \times 10^5$$

f. $8.9 \times 10^2 + 1.1 \times 10^2$

$$8.9 \times 10^2 + 1.1 \times 10^2 = (8.9 + 1.1) \times 10^2 = 10.0 \times 10^2 = 1.0 \times 10^3$$

g. $6.7 \times 10^4 - 2.3 \times 10^4$

$$6.7 \times 10^4 - 2.3 \times 10^4 = (6.7 - 2.3) \times 10^4 = 4.4 \times 10^4$$

2. Practice simplifying operations involving scientific notation by simplifying each.

a. $2.5 \times 10^3 + 4.3 \times 10^3$

$$2.5 \times 10^3 + 4.3 \times 10^3 = (2.5 + 4.3) \times 10^3 = 6.8 \times 10^3$$

b. $7.1 \times 10^2 + 1.2 \times 10^2$

$$7.1 \times 10^2 + 1.2 \times 10^2 = (7.1 + 1.2) \times 10^2 = 8.3 \times 10^2$$

c. $3.4 \times 10^4 - 1.1 \times 10^4$

$$3.4 \times 10^4 - 1.1 \times 10^4 = (3.4 - 1.1) \times 10^4 = 2.3 \times 10^4$$

d. $5.6 \times 10^3 - 2.3 \times 10^3$

$$5.6 \times 10^3 - 2.3 \times 10^3 = (5.6 - 2.3) \times 10^3 = 3.3 \times 10^3$$

e. $1.2 \times 10^5 + 3.4 \times 10^5$

$$1.2 \times 10^5 + 3.4 \times 10^5 = (1.2 + 3.4) \times 10^5 = 4.6 \times 10^5$$

f. $8.9 \times 10^2 + 1.1 \times 10^2$

$$8.9 \times 10^2 + 1.1 \times 10^2 = (8.9 + 1.1) \times 10^2 = 10.0 \times 10^2 = 1.0 \times 10^3$$

g. $6.7 \times 10^4 - 2.3 \times 10^4$

$$6.7 \times 10^4 - 2.3 \times 10^4 = (6.7 - 2.3) \times 10^4 = 4.4 \times 10^4$$

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