

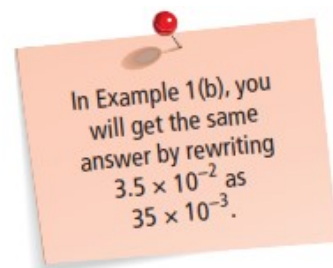
Adding & Subtracting in Scientific Notation

Ex:) Find the sum or difference.

Notes:

A. $(4.6 \times 10^3) + (8.72 \times 10^3)$

B. $(3.5 \times 10^{-2}) - (6.6 \times 10^{-3})$



OYO:) Find the sum or difference.

Notes:

A. $(8.2 \times 10^2) + (3.41 \times 10^{-1})$

B. $(7.8 \times 10^{-5}) - (4.5 \times 10^{-5})$

Multiplying in Scientific Notation

Ex:) Multiply.

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

Notes:

OYO:) Multiply.

$$(2 \times 10^4) \times (6 \times 10^{-7})$$

Notes:

Dividing in Scientific Notation

Ex:) Divide.

$$\frac{1.5 \times 10^{-8}}{6 \times 10^7}$$

Notes:

OYO:) Divide.

$$(1.5 \times 10^{-3}) \div (7.5 \times 10^2)$$

Notes:

Modeling Real Life

Ex:) An aluminum ion has a diameter of about 5×10^{-11} meter.
How many times greater is the diameter of the sun than the diameter of the ion?

Notes:



Diameter $\approx 1,400,000,000$ m

OYO:) A person typically breathes about 8.64×10^3 liters of air per day.
The life expectancy of a person in the United States at birth is about 29,200 days. Estimate the total amount of air a person born in the United States breathes over a lifetime.

Notes:

