

Ch4.3 Scientific Notation.

Scientific Notation

A number is written in scientific notation when it is expressed in the form

$$a \times 10^n,$$

where $1 \leq |a| < 10$ and n is an integer.

Ex1) Write with scientific notation.

- a) 93,000,000
- b) 63,200,000,000
- c) 0.00462
- d) 0.0000762

Ex2) Write each number without exponents.

- a) 6.2×10^3
- b) 4.28×10^6
- c) 7.04×10^{-4}

Ex3) Simplify.

- a) $(7 \times 10^3)(5 \times 10^4)$
- b) $(4 \times 10^5)(3 \times 10^{-11})$
- c) $\frac{4 \times 10^{-5}}{2 \times 10^3}$
- d) $\frac{6 \times 10^6}{0.2 \times 10^{-4}}$
- e) $\frac{360,000}{1.2 \times 10^3}$

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