

Scientific Notation

Exponent
(any integer)

$$m \times 10^n$$

Coefficient
 $1 \leq m < 10$

Base

NEGATIVE EXPONENT

$$5.13 \times 10^{-5}$$

Move decimal point left for
the negative exponent.

$$= 0.0000513$$

POSITIVE EXPONENT

$$6.254 \times 10^3$$

Move decimal point right for
the positive exponent.

$$= 6254$$

Standard and Scientific Notations

Express each number in scientific notation.

1) 52,427 = _____

2) 312 = _____

3) 266 = _____

4) 61,218 = _____

5) 18 = _____

6) 85.96 = _____

7) 1,005 = _____

8) 700 = _____

Express each number in standard notation.

9) 8.6×10^3 = _____

10) 5.11×10^3 = _____

11) 3.042×10^2 = _____

12) 7.259×10^4 = _____

13) 9.10×10^3 = _____

14) 6.5×10^4 = _____

15) 6.1×10^4 = _____

16) 9.8×10 = _____

Standard and Scientific Notations

Express each number in scientific notation.

1) 12,501,000 = _____

2) 982,220,000 = _____

3) 1,400,000 = _____

4) 152,650,000,000 = _____

5) 480,000,000 = _____

Express each number in standard notation.

6) 6.005×10^{13} = _____

7) 2.4×10^{10} = _____

8) 5.0256×10^7 = _____

9) 1.475645×10^9 = _____

10) 8.7826126×10^6 = _____

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Scientific Notation

Simplify each problem and express the answer in scientific notation.

1) $(6 \times 10^{-5}) + (2 \times 10^{-1})$

Answer: _____

2) $(9 \times 10^4)(5 \times 10^7)$

Answer: _____

3) $\frac{8 \times 10^{-6}}{4 \times 10^{-2}}$

Answer: _____

4) $(3 \times 10^9) - (2 \times 10^6)$

Answer: _____

5) $(9 \times 10^2) - (3 \times 10^{-2})$

Answer: _____

6) $(7 \times 10^4) + (6 \times 10^7)$

Answer: _____

7) $(5 \times 10^6)(4 \times 10^9)$

Answer: _____

8) $\frac{3 \times 10^{-7}}{8 \times 10^{-3}}$

Answer: _____

9) $(2 \times 10^{-6}) + (7 \times 10^{-3})$

Answer: _____

10) $(5 \times 10^3)(5 \times 10^{-1})$

Answer: _____

Scientific Notation

Simplify each problem and express the answer in scientific notation.

1) $\frac{3.2 \times 10^4}{1.6 \times 10^2}$

Answer: _____

2) $(7.1 \times 10^{-2}) + (5.02 \times 10^{-4})$

Answer: _____

3) $(4.8 \times 10^6) - (9.7 \times 10^4)$

Answer: _____

4) $(6.18 \times 10^{-1})(8.7 \times 10^2)$

Answer: _____

5) $(5.98 \times 10^{-2}) + (3.4 \times 10^{-4})$

Answer: _____

6) $\frac{2.15 \times 10^7}{5 \times 10^3}$

Answer: _____

7) $(2.08 \times 10^{-7})(8.1 \times 10^{-5})$

Answer: _____

8) $\frac{5.4 \times 10^2}{1.2 \times 10^{-1}}$

Answer: _____

9) $(6.5 \times 10^7) - (3.1 \times 10^4)$

Answer: _____

10) $(1.98 \times 10^{-3}) + (5.2 \times 10^{-6})$

Answer: _____