

CONVERSELY:

To convert a number from scientific notation to standard form

- 1) **Positive** exponent → move the decimal point to the _____.
- 2) Move the decimal from its current place, the *amount* and *direction* specified by the exponent on the 10.
Eg. $2.31 \times 10^3 \rightarrow 2310$

Practice: Convert these numbers to standard form.

- | | |
|---------------------------------|---------------------------------|
| 1) $2 \times 10^3 =$ _____ | 2) $2.331 \times 10^5 =$ _____ |
| 3) $5 \times 10^6 =$ _____ | 4) $7.627 \times 10^5 =$ _____ |
| 5) $3.004 \times 10^9 =$ _____ | 6) $5.23 \times 10^4 =$ _____ |
| 7) $5.062 \times 10^2 =$ _____ | 8) $9.876 \times 10^7 =$ _____ |
| 9) $2.1 \times 10^{11} =$ _____ | 10) $1.034 \times 10^4 =$ _____ |

Problem Set:

Express the following in Scientific Notation:

- | | |
|---------------------------------------|---|
| 1) $61,500 =$ ____ . ____ $\times 10$ | 2) $783,000 =$ ____ . ____ $\times 10$ |
| 3) $321.1 =$ ____ . ____ $\times 10$ | 4) $9,770,000 =$ ____ . ____ $\times 10$ |
| 5) $52.786 =$ ____ . ____ $\times 10$ | 6) $10,632,000 =$ ____ . ____ $\times 10$ |

Express the following in Standard Notation:

- | | |
|------------------------------------|---------------------------------|
| 7) $2.46 \times 10^8 =$ _____ | 8) $4.33 \times 10^5 =$ _____ |
| 9) $5.8 \times 10^3 =$ _____ | 10) $3.045 \times 10^6 =$ _____ |
| 11) $9.413 \times 10^{10} =$ _____ | 12) $7.62 \times 10^2 =$ _____ |