

Name : _____

Mixed: ES2

Scientific Notation - Standard

Example: 1

Write 7.928×10^2 in standard notation.

Here the exponent is 2. We should move the decimal point 2 places to the right.

$$\begin{array}{c} \text{7.928} \\ \text{7.92} \end{array} \begin{array}{c} \curvearrowright \\ \curvearrowright \\ \downarrow \end{array} \begin{array}{c} 8 \\ 8 \end{array}$$
$$7.928 \times 10^2 = \mathbf{792.8}$$

Example: 2

Write 1.62×10^{-3} in standard notation.

Here the exponent is -3. We should move the decimal point 3 places to the left.

$$\begin{array}{c} 001.62 \\ 0001.62 \end{array} \begin{array}{c} \curvearrowleft \\ \curvearrowleft \\ \curvearrowleft \end{array} \begin{array}{c} 0 \\ 0 \\ 0 \end{array}$$
$$1.62 \times 10^{-3} = \mathbf{0.00162}$$

Express each number in standard notation

1) $8.526 \times 10^{-5} =$ _____

3) $5.905 \times 10^2 =$ _____

5) $4.862 \times 10^{-3} =$ _____

7) $7.2459 \times 10^4 =$ _____

9) $3.526 \times 10^{-2} =$ _____

11) $9.1 \times 10^5 =$ _____

12) $1.1286 \times 10^{-2} =$ _____

13) $1.825 \times 10^{-1} =$ _____

14) $8.24 \times 10^3 =$ _____

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