

Name : _____

Mixed: ES1

Scientific Notation - Standard

Example: 1

Write 3.25×10^2 in standard notation.

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

$$\begin{array}{c} 3.25 \\ \curvearrowright \quad \curvearrowright \\ 325 \end{array}$$
$$3.25 \times 10^2 = 325$$

Example: 2

Write 8.76×10^{-2} in standard notation.

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

$$\begin{array}{c} 008.76 \\ \curvearrowleft \quad \curvearrowleft \\ 0.0876 \end{array}$$
$$8.76 \times 10^{-2} = 0.0876$$

Express each number in standard notation

1) $9.63 \times 10^{-3} =$ _____

3) $3.042 \times 10^2 =$ _____

5) $9.105 \times 10^{-2} =$ _____

7) $6.1 \times 10^0 =$ _____

9) $2.9854 \times 10^{-1} =$ _____

11) $1.05 \times 10^2 =$ _____

12) $2.8502 \times 10^{-3} =$ _____

13) $4.172 \times 10^{-4} =$ _____

14) $9.7 \times 10^5 =$ _____

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