

Scientific Notation - Standard

Example: 1

Write 4.77×10^2 in standard notation.

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

$$4.\overset{\curvearrowright}{7}\overset{\curvearrowright}{7} \downarrow$$

$$4.77 \times 10^2 = \mathbf{477}$$

Example: 2

Write 8.04×10^{-2} in standard notation.

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

$$0\overset{\curvearrowright}{0}\overset{\curvearrowright}{8}.04 \downarrow$$

$$8.04 \times 10^{-2} = \mathbf{0.0804}$$

Express each number in standard notation

1) $1.256 \times 10^3 =$ _____

3) $9.5 \times 10^{-4} =$ _____

5) $7.1822 \times 10^4 =$ _____

7) $4.2 \times 10^{-2} =$ _____

9) $3.005 \times 10^{-5} =$ _____

11) $6.21 \times 10^0 =$ _____

12) $9.072 \times 10^3 =$ _____

13) $7.24 \times 10^{-3} =$ _____

14) $3.542 \times 10^1 =$ _____

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