

Scientific Notation - Standard

Negative: ES1

Example:Write 9.52×10^{-2} in standard notation.

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

$$0 \swarrow 0 \searrow 9.52$$
$$9.52 \times 10^{-2} = \mathbf{0.0952}$$

Express each number in standard notation.

1) $8.5 \times 10^{-2} =$ _____

2) $6.13 \times 10^{-4} =$ _____

3) $2.0712 \times 10^{-5} =$ _____

4) $5.0015 \times 10^{-3} =$ _____

5) $4.155 \times 10^{-3} =$ _____

6) $8.075 \times 10^{-2} =$ _____

7) $7.4 \times 10^{-4} =$ _____

8) $9.2 \times 10^{-1} =$ _____

9) $1.4258 \times 10^{-1} =$ _____

10) $2.98 \times 10^{-4} =$ _____

11) $9.01 \times 10^{-4} =$ _____

12) $1.7206 \times 10^{-3} =$ _____

13) $3.7026 \times 10^{-2} =$ _____

14) $8.69 \times 10^{-5} =$ _____

Answer key**Scientific Notation - Standard**

Negative: ES1

Example:Write 9.52×10^{-2} in standard notation.

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

$$9.52 \times 10^{-2} = 0.0952$$

Express each number in standard notation.

1) $8.5 \times 10^{-2} = \underline{0.085}$

2) $6.13 \times 10^{-4} = \underline{0.000613}$

3) $2.0712 \times 10^{-5} = \underline{0.000020712}$

4) $5.0015 \times 10^{-3} = \underline{0.0050015}$

5) $4.155 \times 10^{-3} = \underline{0.004155}$

6) $8.075 \times 10^{-2} = \underline{0.08075}$

7) $7.4 \times 10^{-4} = \underline{0.00074}$

8) $9.2 \times 10^{-1} = \underline{0.92}$

9) $1.4258 \times 10^{-1} = \underline{0.14258}$

10) $2.98 \times 10^{-4} = \underline{0.000298}$

11) $9.01 \times 10^{-4} = \underline{0.000901}$

12) $1.7206 \times 10^{-3} = \underline{0.0017206}$

13) $3.7026 \times 10^{-2} = \underline{0.037026}$

14) $8.69 \times 10^{-5} = \underline{0.0000869}$