

Name : _____

Score : _____

Scientific Notation - Standard

Mixed: ES1

Example: 1Write 3.25×10^2 in standard notation.

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


$$3.25 \times 10^2 = \mathbf{325}$$

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

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


$$8.76 \times 10^{-2} = \mathbf{0.0876}$$

Express each number in standard notation.

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

2) $5.1146 \times 10^3 =$ _____

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

4) $7.259 \times 10^4 =$ _____

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

6) $6.5 \times 10^{-5} =$ _____

7) $6.1 \times 10^4 =$ _____

8) $9.8 \times 10^{-1} =$ _____

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

10) $8.432 \times 10^4 =$ _____

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

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

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

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

Name : _____

Answer key

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


$$8.76 \times 10^{-2} = \mathbf{0.0876}$$

Express each number in standard notation.

1) $9.63 \times 10^{-3} = \mathbf{0.00963}$

2) $5.1146 \times 10^3 = \mathbf{5114.6}$

3) $3.042 \times 10^2 = \mathbf{304.2}$

4) $7.259 \times 10^4 = \mathbf{72,590}$

5) $9.105 \times 10^{-2} = \mathbf{0.09105}$

6) $6.5 \times 10^{-5} = \mathbf{0.000065}$

7) $6.1 \times 10^4 = \mathbf{61,000}$

8) $9.8 \times 10^{-1} = \mathbf{0.98}$

9) $2.9854 \times 10^{-1} = \mathbf{0.29854}$

10) $8.432 \times 10^4 = \mathbf{84,320}$

11) $1.05 \times 10^2 = \mathbf{105}$

12) $2.8502 \times 10^{-3} = \mathbf{0.0028502}$

13) $4.172 \times 10^{-4} = \mathbf{0.0004172}$

14) $9.7 \times 10^5 = \mathbf{970,000}$