

Scientific Notation - Standard

Mixed: MS3

Example: 1

Write 1.0653×10^5 in standard notation.

Here the exponent is 5. We should move the decimal point 5 places to the right.

1.06530

$$1.0653 \times 10^5 = \mathbf{106,530}$$

Example: 2

Write 7.6×10^{-5} in standard notation.

Here the exponent is -5. We should move the decimal point 5 places to the left.

000007.6

$$7.6 \times 10^{-5} = \mathbf{0.000076}$$

Express each number in standard notation.

1) 3.012×10^{-11} _____

2) 8.1516×10^8 _____

3) 2.21×10^{-7} _____

4) 9.5096×10^{13} _____

5) 6.7×10^{-14} _____

6) 2.931×10^{10} _____

7) 1.19×10^{-9} _____

8) 7.182×10^6 = _____

9) 4.2500×10^{-13} = _____

10) 2.57×10^{-8} = _____

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Scientific Notation - Standard

Mixed: MS3

Example: 1Write 1.0653×10^5 in standard notation.

Here the exponent is 5. We should move the decimal point 5 places to the right.

1.0653 → 106,530

$$1.0653 \times 10^5 = \mathbf{106,530}$$

Example: 2Write 7.6×10^{-5} in standard notation.

Here the exponent is -5. We should move the decimal point 5 places to the left.

7.6 → 0.000076

$$7.6 \times 10^{-5} = \mathbf{0.000076}$$

Express each number in standard notation.

1) 3.012×10^{-11} _____

2) 8.1516×10^8 _____

3) 2.21×10^{-7} _____

4) 9.5096×10^{13} _____

5) 6.7×10^{-14} _____

6) 2.931×10^{10} _____

7) 1.19×10^{-9} _____

8) 7.182×10^6 = **7,182,000**

9) 4.2500×10^{-13} = **0.000000000000425**

10) 2.57×10^{-8} = **0.000000257**

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