

Scientific Notation

Mixed: MS1

Example: 1

Write 514, 223 in scientific notation.

5 1 4 2 2 3

We should move the decimal point 5 places to the left. So, the exponent will be 5.

$$514, 223 = 5.14223 \times 10^5$$

Example: 2

Write 0.0000083 in scientific notation.

0.0 0 0 0 0 8 3

We should move the decimal point 6 places to the right. So, the exponent will be -6.

$$0.0000083 = 8.3 \times 10^{-6}$$

Express each number in scientific notation

1) 18, 451, 000 _____

2) 0.000004826 _____

3) 5, 820, 000, 000 _____

4) 0.000000007 _____

5) 350, 100, 000 _____

6) 0.000000000 _____

7) 71, 300, 000 _____

8) 0.00000002164 = _____

9) 30, 000, 000, 000, 000 = _____

10) 0.0000642 = _____

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Express each number in scientific notation

1) 18, 451, 000 _____

2) 0.000004826 _____

3) 5, 820, 000, 000 _____

4) 0.000000007 _____

5) 350, 100, 000 _____

6) 0.000000000 _____

7) 71, 300, 000 _____

8) 0.00000002164 = 2.164×10^{-8} _____

9) 30, 000, 000, 000, 000 = 3×10^{13} _____

10) 0.0000642 = 6.42×10^{-5} _____

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