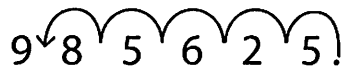
Name : _____ Score : _____

Scientific Notation (A)

Example:

Write 985625 in scientific notation.



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

$985,625 = \mathbf{9.85625 \times 10^5}$

Express each number in scientific notation.

1) 7, 250, 000, 000 = _____

2) 872, 000, 000, 000, 000 = _____

3) 110, 000, 000 = _____

4) 90, 500, 000, 000 = _____

5) 28, 189, 000, 000, 000 = _____

6) 5, 620, 000 = _____

7) 874, 020, 000, 000 = _____

8) 14, 000, 000 = _____

9) 7,586, 000, 000, 000, 000 = _____

10) 4, 460, 500, 000, 000 = _____

Name : _____ Score : _____

Scientific Notation (B)

Example:

Write 0.000000743 in scientific notation.

We should move the decimal point 7 places to the right. So, the exponent will be -7.

$0.000000743 = \mathbf{7.43 \times 10^{-7}}$

Express each number in scientific notation.

1) 0.0000000000034 = _____

2) 0.0000000408 = _____

3) 0.0000000000000092 = _____

4) 0.0000002726 = _____

5) 0.000000000000517 = _____

6) 0.0000045 = _____

7) 0.0000002149 = _____

8) 0.00000000623 = _____

9) 0.000000000000028 = _____

10) 0.000000001 = _____

Name : _____ Score : _____

Scientific Notation

Example: 1

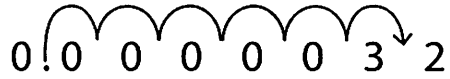
Write 324, 170 in scientific notation.

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

$324,170 = \mathbf{3.2417 \times 10^{5}}$

Example: 2

Write 0.0000032 in scientific notation.



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

$0.0000032 = \mathbf{3.2 \times 10^{-6}}$

Express each number in scientific notation.

1) 0.000037 = _____

2) 5, 725, 000, 000 = _____

3) 0.00000004259 = _____

4) 100, 020 = _____

5) 0.000000000000081 = _____

6) 785, 120, 000 = _____

7) 0.00000956 = _____

8) 20, 000, 000, 000 = _____

9) 0.000000001256 = _____

10) 2, 915, 000 = _____

Name : _____ Score : _____

Scientific Notation (D)

Example:

Write 2.97853×10^5 in standard notation.

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

$2.97853 \times 10^5 =$ **297, 853**

Express each number in standard notation.

1) 5.2564×10^9 = _____

2) 9.42×10^7 = _____

3) 3.6653×10^{13} = _____

4) 7.987×10^{15} = _____

5) 6.2×10^9 = _____

6) 2.5856×10^8 = _____

7) 4.002×10^{12} = _____

8) 1.25×10^{11} = _____

9) 9.5269×10^6 = _____

10) 3.415×10^{12} = _____

Name : _____ Score : _____

Scientific Notation

E

Example: 1

Write 1.0653×10^5 in standard notation.

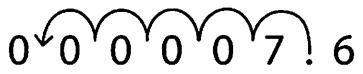
Here the exponent is 5. We should move the decimal point 5 places to the right.

1.0653×10^5 = **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.



7.6×10^{-5} = **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} = _____

Name : _____ Score : _____

Scientific Notation (F)

Express each number in scientific notation.

1) 0.00000927 = _____

2) 85, 000, 000 = _____

3) 4, 202, 100 = _____

4) 0.000000000037 = _____

5) 1, 000, 000, 000 = _____

Express each number in standard notation.

6) 6.024×10^{-13} = _____

7) 2.13×10^{11} = _____

8) 1.2×10^{-8} = _____

9) 3.7×10^{-9} = _____

10) 5.002×10^{6} = _____