

Six Ways to Write Numbers

I. Standard Form:

.099

245

2,950.3

43,884.24

II. Word Form:

.099 = ninety nine thousandths

245 = Two hundred forty five

2,950.3 = Two thousand nine hundred fifty and three tenths

43,884.24 = Forty three thousand eight hundred eighty four and twenty four hundredths

III. Regular Expanded Form:

7,583.982 = 7,000 + 500 + 80 + 3 + .9 + .08 + .002

18,804.834 = 10,000 + 8,000 + 800 + 4 + .8 + .03 + .004

394,001.117 = 300,000 + 90,000 + 4,000 + 1 + .1 + .01 + .007

IV. Extended Expanded Form:

692.821 = (6 x 100) + (9 x 10) + (2 x 1) + (8 x .1) + (2 x .01) + (1 x .001)

7,583.982 = (7 x 1,000) + (5 x 100) + (8 x 10) + (3 x 1) + (9 x .1) + (8 x .01) + (2 x .001)

61,347.043 = (6 x 10,000) + (1 x 1,000) + (3 x 100) + (4 x 10) + (7 x 1) + (4 x .01) + (3 x .001)

V. Extended Expanded Form with Fractions:

68.56 = (6 x 10) + (8 x 1) + (5 x 1/10) + (6 x 1/100)

692.821 = (6 x 100) + (9 x 10) + (2 x 1) + (8 x 1/10) + (2 x 1/100) + (1 x 1/1000)

7,583.982 = (7 x 1,000) + (5 x 100) + (8 x 10) + (3 x 1) + (9 x 1/10) + (8 x 1/100) + (2 x 1/1000)

IV. Scientific Notation: A number x 10[#]

188,000 = 1.88 x 10⁵

97,000,000 = 9.7 x 10⁷

323,000,000,000 = 3.23 x 10¹¹

.000000046 = 4.6 x 10⁻⁸