

## Scientific Notation 2/4

This is a set of exercises to practice the conversion of a number that is already written using Scientific Notation into another number using Scientific Notation but given certain indicated prefix as it is used in engineering.

**Remember:**

$$p = 10^{-12}, n = 10^{-9}, \mu = 10^{-6}, m = 10^{-3}, k = 10^3, M = 10^6, G = 10^9, T = 10^{12}$$

**Solved examples in Youtube:**



["Cómo escribir un número en notación científica utilizando prefijos, ejemplos"](https://www.youtube.com/watch?v=G-BsFxWq9MU)

<https://www.youtube.com/watch?v=G-BsFxWq9MU>

**Example:** Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "m":

$$-3.050e+02 \quad n = \text{[ ]}$$

**Solution:**

$$-3.050 \cdot 10^2 \rightarrow -3.050 \cdot 10^2 \cdot (1) \rightarrow -3.050 \cdot 10^2 \cdot (10^3 \cdot 10^{-3}) \rightarrow -3.050 \cdot 10^5 \cdot 10^{-3} \rightarrow -305\,000 \text{ m}$$

**Answer:**

$$-3.050 \cdot 10^2 = -305\,000 \text{ m}$$

1. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "m":

**8.240e-08**    n =

2. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "m":

**4.730e+00**    n =

3. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "u":

**1.940e-05**    n =

4. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "k":

**-5.750e+06**    n =

5. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "p":

**-5.150e-09**    n =

6. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "k":

**-9.730e+06**    n =

7. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "u":

**-8.130e-04**    n =

8. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "M":

**-7.970e+08**    n =

9. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "p":

**-4.050e-09**    n =

10. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "k":

**-9.070e-01**    n =

11. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "n":

**2.620e-08**    n =

12. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "G":

**5.540e+06**    n =

13. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "k":

**-7.820e+05** n =

14. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "m":

**-4.120e+03** n =

15. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "M":

**-9.030e+02** n =

16. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "M":

**5.200e+02** n =

17. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "k":

**5.630e-05**

n =

18. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "u":

**1.130e-03**

n =

19. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "k":

**5.600e-04**

n =

20. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "n":

**4.830e-08**

n =

21. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "k":

**9.900e-02**

n =

22. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "m":

**5.980e+03**

n =

23. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "m":

**-8.540e-08**

n =

24. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "m":

**8.860e+02**

n =

25. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "n":

**4.450e-08**    n =

26. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "k":

**2.810e-04**    n =

27. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "M":

**4.980e+00**    n =

28. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "M":

**-5.300e+03**    n =



29. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "n":

**7.340e-08**    n =

30. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "M":

**-2.620e+02**    n =

31. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "u":

**5.790e-03**    n =

32. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "k":

**-8.270e+04**    n =

33. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "m":

**-2.230e+00**    n =

34. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "u":

**2.840e-01**    n =

35. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "n":

**5.640e-08**    n =

36. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "m":

**-5.250e+00**    n =

37. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "n":

**-1.890e-08**    n =

38. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "k":

**5.690e-05**    n =

39. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "k":

**9.290e-02**    n =

40. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "k":

**5.160e-02**    n =

41. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "M":

**-7.800e+07** n =

42. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "k":

**-4.680e+04** n =

43. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "u":

**5.380e-03** n =

44. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "m":

**-9.260e+02** n =

45. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "m":

**-9.700e+00** n =

46. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "G":

**-3.680e+04** n =

47. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "n":

**-7.490e-08** n =

48. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "k":

**-9.840e-02** n =

49. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "m":

**4.460e+00**    n =

50. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "n":

**2.640e-08**    n =

51. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "n":

**-8.030e-07**    n =

52. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "u":

**-6.080e-04**    n =

53. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "k":

**-5.650e-05**    n =

54. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "m":

**4.060e+00**    n =

55. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "u":

**-5.760e-09**    n =

56. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "m":

**4.130e+00**    n =

57. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "M":

**-6.680e+01**    n =

58. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "u":

**-6.590e-05**    n =

59. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "m":

**-8.520e+02**    n =

60. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "k":

**9.660e-03**    n =



61. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "u":

**-6.910e-03**    n =

62. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "k":

**5.160e+06**    n =

63. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "k":

**3.710e-05**    n =

64. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "m":

**6.650e+01**    n =

65. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "u":

**-4.020e-02** n =

66. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "M":

**-2.810e+00** n =

67. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "u":

**-1.510e-02** n =

68. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "u":

**-9.510e-05** n =

69. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "T":

**3.070e+07**    n =

70. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "m":

**-8.400e-07**    n =

71. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "M":

**5.190e+03**    n =

72. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "m":

**-7.880e+02**    n =

73. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "m":

**-5.760e-08**    n =

74. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "m":

**-6.500e-07**    n =

75. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "k":

**7.890e-01**    n =

76. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "T":

**-6.930e+07**    n =

77. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "u":

**3.590e-09**    n =

78. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "m":

**4.970e-08**    n =

79. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "m":

**-3.480e+00**    n =

80. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "n":

**-1.700e-07**    n =

81. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "T":

**-9.590e+07**    n =

82. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "m":

**8.650e-07**    n =

83. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "m":

**5.890e+00**    n =

84. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "k":

**-4.850e+04**    n =

85. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "G":

**-8.720e+04**    n =

86. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "m":

**4.300e+02**    n =

87. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "k":

**-2.180e+05**    n =

88. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "G":

**6.290e+04**    n =

89. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "M":

**1.100e+00**    n =

90. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "u":

**-1.120e-09**    n =

91. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "k":

**2.620e-04**    n =

92. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "M":

**-5.520e+02**    n =



93. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "n":

**-2.260e-07**    n =

94. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "m":

**-1.580e-07**    n =

95. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "G":

**-2.590e+05**    n =

96. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "m":

**1.420e-07**    n =

97. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "M":

**-4.690e+07** n =

98. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "m":

**-2.530e-08** n =

99. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "m":

**-2.530e-08** n =

100. Write the following number given the indicated prefix. Do not use any electronic device, use your brain, pencil and paper.

Write the number using the prefix "u":

**-6.390e-09** n =