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Homework 1

CST 315

5. Convert the following to scientific notation:

a) 23.61 = 2.361E1

b) 12000 = 1.2E4

c) 7632 = 7.632E3

d) 0.00509 = 5.09E-3

8. Convert the following to scientific notation:

a) 11200 = 1.12E4

b) 30000000 = 3E7

c) 325.2 = 3.252E2

d) 0.00002504 = 2.504E-5

10. Convert the following to engineering notation:

a) 3500 = 3.5E3

b) 17.9 = 17.9

c) 5601000 = 5.601E6

d) 0.0000355 = 35.5E-6

14. Compute the following:

a) 7.1E1 times 4.0E2 = 2.84E4

b) 2.32 times 5.6E3 = 1.2992E4

c) 6.01E3 times 3.0E−2 = 1.803E2

d) 5.2E5 times 8.2E−7 = 4.264E-1

15. Compute the following:

a) 8.2E1 / 4E2 = 2.05E-1

b) 2.42 / 2.0E3 = 1.21E-3

d) 9.6E5 / 3.1E−7 = 3.096774194E12