Module 5 Lesson 3 Assignment Name:_____

Express each number in standard notation.

1) 7.3×10^{7}
2) 2.9×10^{3}
3) 9.821×10^{12}
4) 3.54×10^{-1}
5) 7.3642×10^{4}
6) 4.268×10^{-6}

Express the number in each statement in standard notation.

7) An electron has a negative charge of 1.6×10^{-19} Coulomb.

8) In the middle layer of the sun's atmosphere, called the chromosphere, the temperature averages 2.78×10^{4} degrees Celsius.

Express each number in scientific notation.

9) 915,600,00,000
10) 6387
11) 845,320
12) 0.00000000814
13) 0.00009621
14) 0.003157
15) 30,620
16) 0.0000000000112
17) 56×10^{7}
18) 4740×10^{5}
19) 0.076×10^{-3}
20) 0.0057×10^{3}

Evaluate. Express each result in scientific and standard notation.

21) $(5 \times 10^{-2})(2.3 \times 10^{12})$
22) $(2.5 \times 10^{-3})(6 \times 10^{15})$
23) $(3.9 \times 10^{3})(4.2 \times 10^{-1})$
24) $(4.6 \times 10^{-4})(3.1 \times 10^{-1})$
25) $\frac{3.12 \times 10^{3}}{1.56 \times 10^{-3}}$
26) $\frac{6.72 \times 10^{3}}{4.2 \times 10^{8}}$
27) $\frac{1.17 \times 10^{2}}{5 \times 10^{-1}}$
28) $\frac{1.82 \times 10^{5}}{9.1 \times 10^{7}}$
29) $\frac{1.68 \times 10^{4}}{8.4 \times 10^{-4}}$
30) $\frac{2.105 \times 10^{-3}}{3.1 \times 10^{2}}$