

Practice Worksheet 1.1 – Scientific Notation Review

Express the following measurements in scientific notation:

a) 36800 g

b) 0.031 L

c) 101 g/mol

d) 0.0000000405 s

e) 26010000000 cm

f) 0.000032 cm³

Rewrite the following numbers in standard notation:

g) 2.74×10^{-4}

h) 6.792×10^2

i) 5.209×10^6

j) 4.91×10^{-9}

k) 3.81×10^0

l) 7.29×10^1

Estimate answers to the following and then evaluate using your calculator. Express the solutions using correct scientific notation:

m)
$$\frac{8.321 \times 10^{12}}{4.781 \times 10^3}$$

n)
$$\frac{8.45 \times 10^{23}}{5.75 \times 10^{-3}} \times (2.04 \times 10^{-16})$$

Estimate:

Estimate:

Actual:

Actual:

o)
$$(3.78 \times 10^5)^3 \times \frac{5.55 \times 10^{13}}{2.73 \times 10^{-22}} \times (4.10 \times 10^{-5})$$

Estimate:

Actual: