

Chemistry 11
Mole I Check Point
✓ Significant Figures

Name: Key.
Date:
Block:

1. Indicate how many significant figures there are in each of the following measured values:

562.4 4

26 000 2

405.6 4

090.00 4

0.000005 1

100 1

2. Calculate the answers to the appropriate number of significant figures:

$45.6 \times 9 = 410.4 = 400$

$1.678 / 0.48 = 3.495 = 3.5$

$98.5 + 9.00 = 107.5$

$100. \times 100. = 10000 = 1.00 \times 10^4$

$(9.5 + 10.6) / 2.3 = 8.7$

$4.52 \times 8.1 + 5.333 = 42$

3. Write the following numbers in scientific notation:

928,000 9.28×10^5

0.00127 1.27×10^{-3}

597×10^3 5.97×10^5

60.2×10^{-7} 6.02×10^{-6}