

SIGNIFICANT DIGITS IN-CLASS WORKSHEET

ABSTRACT. When we make measurements, we can never achieve infinite precision. The measurements that we report must reflect those limitations. If we perform calculations using those numbers, the resulting calculation must also express those limitations.

PROBLEM 1

$$2.30m \times 0.0055m = ?$$

PROBLEM 2

$$0.04030m \div 2.04s = ?$$

PROBLEM 3

$$8010cm \times 2683cm =$$

PROBLEM 4

$$438.3 \text{ inches} \div 200 \text{ years} = ?$$

PROBLEM 5

$$45.92km \times 0.230km = ?$$

PROBLEM 6

$$2.30m + 0.0055m = ?$$

PROBLEM 7

$$23.9mL - 4mL = ?$$

PROBLEM 8

$$0.93m - 0.034m = ?$$

PROBLEM 9

$$420km + 22.9km = ?$$

PROBLEM 10

$$39.00s - 29.7s = ?$$

PROBLEM 11

$$2,045cm + 8cm = ?$$

PROBLEM 12

$$230kg \div 0.9m^3 = ?$$

PROBLEM 13

$$12.4m \times 1.7m = ?$$

PROBLEM 14

$$1,730kg - 87kg = ?$$

PROBLEM 15

$$8394mm \times 0.040mm = ?$$