

Name: \_\_\_\_\_

Block: \_\_\_\_\_

## Metric System & Scientific Notation

Perform each of the following conversions. A list of conversion factors is given on the back of this worksheet.

1.  $2.51 \text{ m} = \text{_____ cm}$

3.  $68.3 \text{ kJ} = \text{_____ J}$

2.  $18.1 \text{ mL} = \text{_____ } \mu\text{L}$

4.  $6.56 \times 10^4 \text{ kg} = \text{_____ tonne}$

Convert each of the following between scientific and algebraic notation.

5.  $2.65 \times 10^9 = \text{_____}$

7.  $1.06 \times 10^{-7} = \text{_____}$

6.  $387,000,000 = \text{_____}$

8.  $0.000\ 000\ 065 = \text{_____}$

Solve each of the following:

9.  $\frac{3.75 \times 10^8 \text{ m}}{1.25 \times 10^4 \text{ s}} = \text{_____}$

10.  $\frac{1.2 \times 10^{-3} \text{ mol}}{5.0 \times 10^{-1} \text{ L}} = \text{_____}$