

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. $18.1 \text{ ml} = \text{_____ } \mu\ell$

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