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 m = _______ cm

2. 18.1 mℓ = _______ µℓ

3. 68.3 kJ = _______ J

4. 6.56 × 10⁴ kg = _______ tonne

Convert each of the following between scientific and algebraic notation.

5. 2.65 × 10⁹ = ______________

6. 387 000 000 = ______________

7. 1.06 × 10⁻⁷ = ______________

8. 0.000 000 065 = ______________

Solve each of the following:

9. \( \frac{3.75 \times 10^8 \text{ m}}{1.25 \times 10^4 \text{s}} = \) ______________

10. \( \frac{1.2 \times 10^{-3} \text{ mol}}{5.0 \times 10^{-1} \ell} = \) ______________