

Scientific Notation

- convenient for larger/smaller numbers
- to express your final answer with correct sds.

$$\underline{A} \times 10^{\textcircled{?}} \quad \begin{array}{l} -8 \dots +8 \\ -n \dots +n \end{array}$$

$$1 \leq A < 10$$

Basic Skill

$$1. \quad \underline{156.90} = 1.5690 \times 10^2$$

$$2. \quad \underline{12000} = 1.2 \times 10^4$$

$$3. \quad 0.0345 = 3.45 \times 10^{-2}$$

$$4. \quad 0.00890 = 8.90 \times 10^{-3}$$

$$5. \quad 1.23 \times 10^6 = 1230000$$

$$6. \quad 2.5 \times 10^{-3} = 0.0025$$

$$7. \quad 1.54 \times 10^4 = 15400$$

$$8. \quad 5.67 \times 10^{-1} = 0.567$$

Calculations with Scientific Notation

$$9. \frac{6.6 \times 10^8}{3.3 \times 10^{-4}} = 2.0 \times 10^{-4}$$

$$14. (2.5 \times 10^{-6}) \times (3.0 \times 10^{-7}) = 7.5 \times 10^{-13}$$

Multiply/
Divide

Add/Subtract

$$13. (1.56 \times 10^{-7}) + (2.42 \times 10^{-8}) =$$

$$\begin{array}{r} 121.827 \\ 3.1 \\ + 42.8 \\ \hline \end{array}$$

$$15.6 \times 10^{-8} + 2.42 \times 10^{-8} =$$

$$18.02 \times 10^{-8}$$

$$1.802 \times 10^{-7}$$