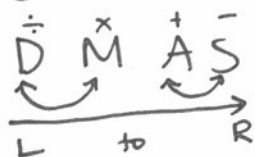


# Grade 4 Algebra Study Guide

- 1) Expression vs. Equation (p.1-4)
- 2) Order of Operations (p.5-7)



Example :  $14 - 10 + \underline{18 \div 2}$   
 $= \underline{14 - 10} + 9$   
 $= 4 + 9$   
 $= 13$

- 3) Balancing Equations (p.8-17) (p.26-27)

$$3 + 7 = \square \qquad \overset{10}{\underbrace{3 + 7}} = 10$$

- 4) Variables in Equations (p.18-25)

$$\begin{array}{l} 8 + n = 15 \\ \uparrow \\ \text{variable (unknown)} \\ \\ 8 + n = 15 \\ - 8 \quad - 8 \\ \\ n = 7 \end{array}$$

$$\begin{array}{l} n \times 8 = 32 \\ \div 8 \quad \div 8 \\ \\ n = 4 \end{array}$$

$$\begin{array}{l} n \div 4 = 8 \\ \times 4 \quad \times 4 \\ \\ n = 32 \end{array}$$

$$\begin{array}{l} n - 8 = 15 \\ + 8 \quad + 8 \\ \\ n = 23 \end{array} \qquad \begin{array}{r} 15 \\ + 8 \\ \hline 23 \end{array}$$