Concept: Solving One-Step Equations

Name:

COMPUTER COMPONENT

Instructions: Select the computer program *Understanding Equations* (Neufeld)
Follow the instructions to the Main Menu.
Select *Solving One-Step Equations* from the Main Menu.

Work through all sections of the following topics **in order**:

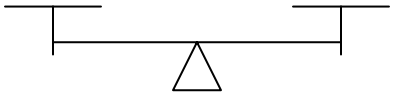
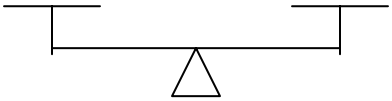
- *Our Problem*
- *Concept ... Examples with Tiles*
- *Concept ... Examples without Tiles*
- *Practice Questions*

As you work through the computer exercises, make your own notes in the **SUMMARY** section of this page.

When you reach the end of the section *Practice Questions* on the computer, move on to the **OFF COMPUTER EXERCISES** below.

SUMMARY

➜ ***Concepts ... Examples with Tiles***

Equation	**Tile Representation**
$x + 2 = 6$	
$-2 = m + 4$	

➜ ***Concepts ... Examples without Tiles***
Write out the steps for solving an equation without tiles.

Step 1:

Step 2:

Step 3:

Step 4:

Solve the equation $y - 3 = 4$

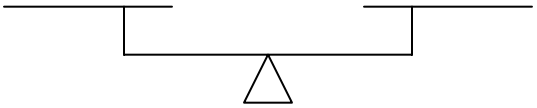
OFF COMPUTER EXERCISES

1. Given the equation **x - 4 = 6**

   (a) Represent the equation on the balance by using tiles.

   (b) Isolate the x tile by manipulating the tiles.

   (c) Write the resulting equation and simplify it.



2. Solve each equation (do not use tiles). Be sure to write out all of your steps **and** to check each answer.

   (a) x - 5 = 7

   (b) y + 3 = 8

   (c) a + 7 = 3

   (d) x + 6 = -4

(e) $7p - 1 = 34$

(f) $7b = 35$

(g) $5y = -25$

(h) $10x = 110$

(i) $4n = -12$

(j) $2m = 0$

(k) $0.9x = 9$

(l) $0.1 = 10c$