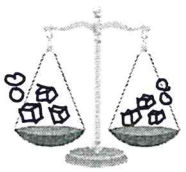
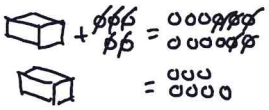
Digits
LESSON 2-1

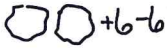
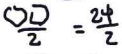
Goal: I will be able to solve 2-step equations

Tool Bag Formulas, equations, Vocabulary, etc	Here's How... Notes & Examples
Review of Solving Equations	
Whatever you add/subtract to one side, you do to the other side.	$5 = 5$ $5+3 = 5+3$ $8 = 8$

Solving Equations	Get the variable all alone and only 1 whole
Examples	a) $\frac{\Delta\Delta}{2} = \frac{14}{2}$ divide both sides by 2 $\Delta = 7$ b) 

Mult./Div. Property of Equality	$5 = 5$ $2 \times 5 = 5 \times 2$ Whenever you mult./divide one side, you must do the same to the other side
Variable	use a letter to represent an unknown quantity x, a, y

c)  $+6 = 30$

Step 1 subtract 6	 $+6-6 = 30-6$
Step 2 Divide by 2	 $= 24$  $= \frac{24}{2}$  $= 12$
Check	$12+12+6 \stackrel{?}{=} 30$ $24+6 = 30$ $30 = 30$ ✓

Need to make it 1 cookie

d)  = \$0.45

$\frac{1}{2}c = 0.45$

$(2)\frac{1}{2}c = 0.45(2)$

$c = 0.90$

How do we make $\frac{3}{4} \rightarrow 1$

e)  = \$12.00

$\frac{3}{4}p = 12$

$(\frac{4}{3})\frac{3}{4}p = 12(\frac{4}{3})$

$p = 16$

$\frac{3}{4} \cdot ? = 1$

$\frac{3}{4} \cdot \frac{4}{3} = \frac{12}{12}$

Symbols to represent Equations

□ = +1

■ = −1

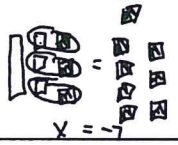
▯ = x

 = −x

a) $x + 3 = -4$

Set Up

Step 2 Get the stick by itself



x = −1

f)  = $\frac{1}{2}$ gallon

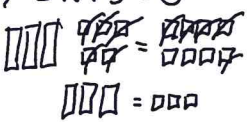
$\frac{5}{8}j = \frac{1}{2}$

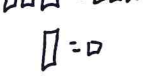
$\frac{8}{5}\frac{5}{8}j = \frac{1}{2} \cdot \frac{8}{5}$

$\frac{40}{40}j = \frac{8}{10}$

$j = \frac{4}{5}$ of a gallon

b) $3x + 5 = 8$





x = 1