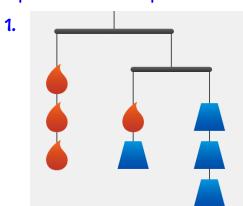
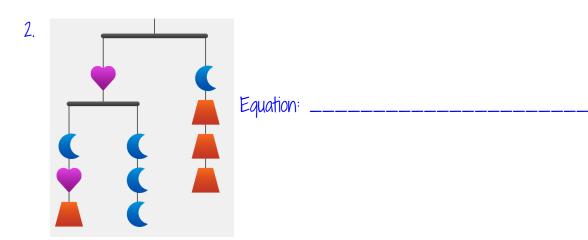
Day 5 HW

Name: Date:

Write linear equations to represent the following diagrams, using variables to represent the shapes:



Equation: _____



3. (Optional) Challenge Exercise?

_		I .		
	*		•	* *
•	¥	•		*
	Ţ		Y I	•
	—	•	*	

Equation: _____

Day 5 Hw

Complete the following exercises.

- **1.** Match these equation balancing steps with the description of what was done in each step.
 - A. Step 1:

$$12x - 6 = 10$$

$$6x - 3 = 5$$

B. Step 2:

$$6x - 3 = 5$$

$$6x = 8$$

C. Step 3:

$$6x = 8$$

$$x = \frac{4}{3}$$

- 1. Add 3 to both sides
- 2. Multiply both sides by $\frac{1}{6}$
- 3. Divide both sides by 2

2. Match each set of equations with the move that turned the first equation into the second.

A.
$$6x + 9 = 4x - 3$$

$$2x + 9 = -3$$

B.
$$-4(5x-7)=-18$$

$$5x - 7 = 4.5$$

c.
$$8 - 10x = 7 + 5x$$

$$4 - 10x = 3 + 5x$$

D.
$$\frac{-5x}{4} = 4$$

$$5x = -16$$

E.
$$12x + 4 = 20x + 24$$

$$3x + 1 = 5x + 6$$

- **1.** Multiply both sides by $\frac{-1}{4}$
- **2.** Multiply both sides by -4
- **3.** Multiply both sides by $\frac{1}{4}$
- **4.** Add -4x to both sides
- **5.** Add -4 to both sides

3. Elena is solving 15 - 10x = 5(x+9). What are 2 different methods she can use to solve for x in this problem?