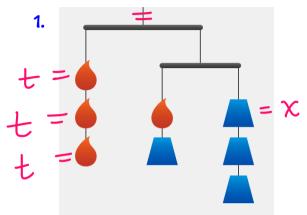
## Day 5 HW

Name:	Ken	

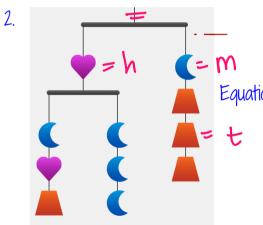
Date: 0 24 24

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



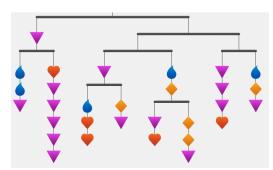
left strand: 3t  $\underline{\text{right strand(s)}}$ :  $\pm \pm x = 3x$ 

Equation: 3t = (t+x) + 3x



Equation: 2h + 4m + t = m + 3t= t right: (m + 3t) + 4m + h + t1eft: N = (M + h + t) + 3M

## 3. (Optional) Challenge Exercise?



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 = 106x - 3 = 5
- Add 3 to both sides
- **2.** Multiply both sides by  $\frac{1}{6}$

**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. Divide both sides by 2

**B.** Step 2:

$$6x - 3 = 5$$
$$6x = 8$$

**C**. Step 3:

$$6x = 8$$
$$x = \frac{4}{3}$$

- 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

$$5x - 7 = 4.5$$

 $\mathbf{c.}\ 8-10x=7+5x$ 

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

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

$$5x = -16$$

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

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

3. Elena is solving 15 - 10x = 5(x+9). What are 2 different methods she can

use to solve for x in this problem?

1. 
$$15 - 10x = 5(x+9)$$