

8/22

# Welcome!

Ms. Walczak

#1.3a

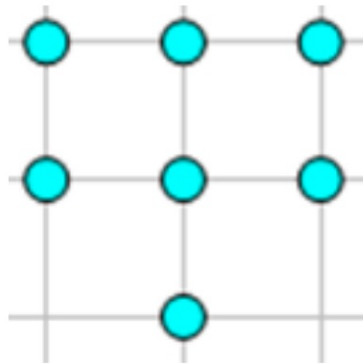
## DO NOW:

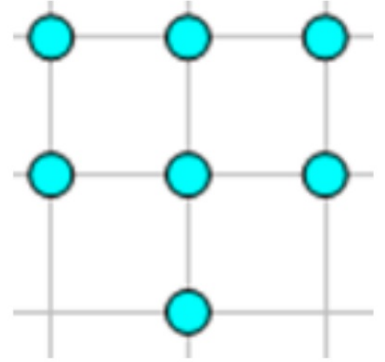
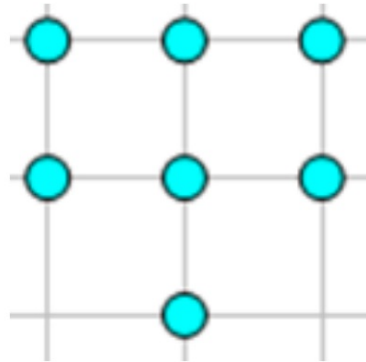
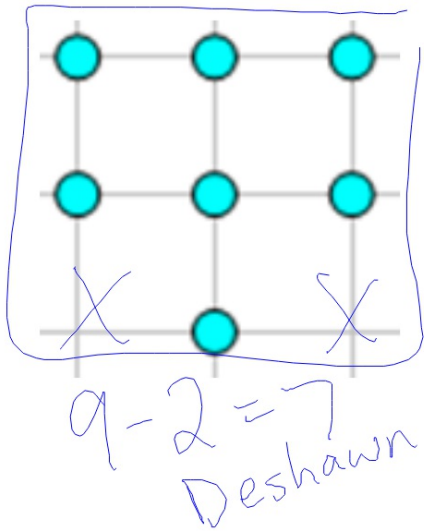
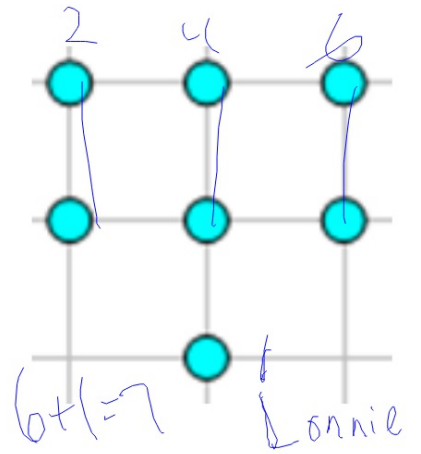
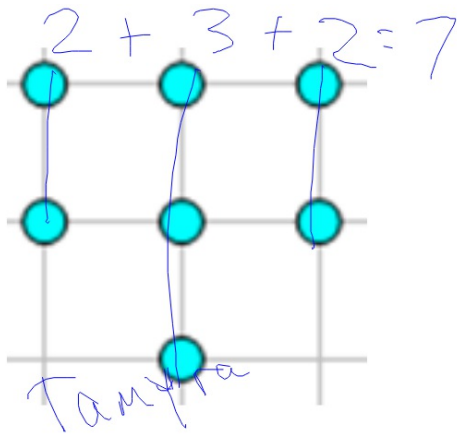
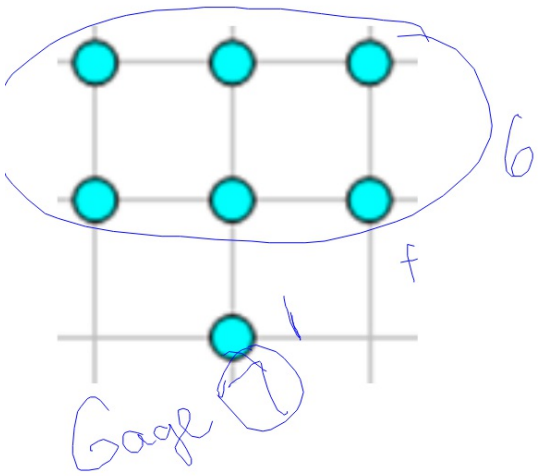
- **Turn in** any late homework to the bin on Ms. Walczak's desk.
- **Grab YOUR calculator** from the wall by the door.
- Take out your **Warm Up Sheet**.

Homework: [Late work](#)

Essential Question: How do you solve equations?

Without counting one by one, how many dots are there in the image?





### **1.3 Solving Equations with Variables on Both Sides**

**Solving Equations:** Goal = \_\_\_\_\_

Choice 1: \_\_\_\_\_

Choice 2: \_\_\_\_\_

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**Example 1:** Solve the equations:

a)  $5x + 2 = 2x + 14$

$$\begin{array}{r} -2x \quad -2x \\ \hline 3x + 2 = 14 \end{array}$$

b)  $2(x + 1) = 3x - 4$

c)  $1.5p - 1 = 1.25p + 7$

d)  $7(4 - a) = 3(a - 4)$

pg. 5 e)  $-6b + 3 = -3(2b - 3)$

e)  $4 - c = -(c - 4)$

e)  $-6b+3=-3(2b-3)$

$$\begin{array}{r} -6b+3 = -6b+9 \\ \hline +6b \quad +6b \\ \hline 3 = 9 \end{array}$$

No SOLUTION

e)  $4-c=-(c-4)$

$$\begin{array}{r} 4-c = -c+4 \\ \hline +c \quad +c \\ \hline 4 = 4 \end{array}$$

INFINITE SOLUTIONS

**Types of Solutions:**

① One solution "IDENTITY"  
 $x=4$

② no solution  $3=9$

③ INFINITE SOLUTIONS / IDENTITY  
 $4=4$