

8/22

Welcome!

Ms. Walczak

#1.3a

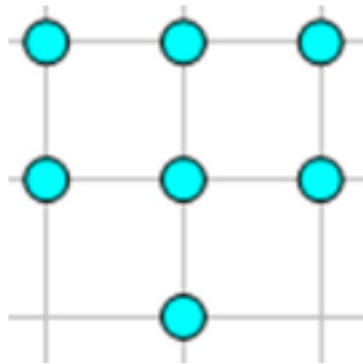
DO NOW:

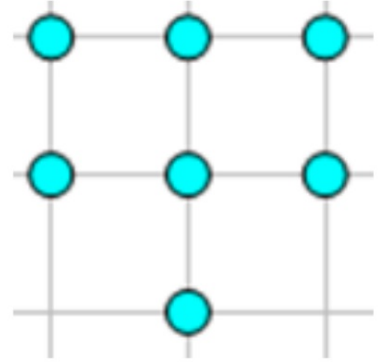
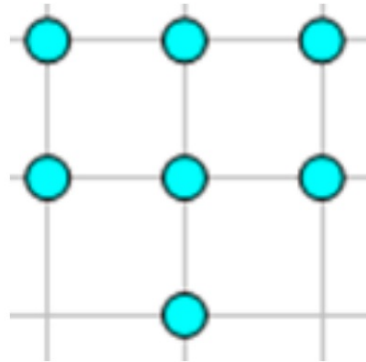
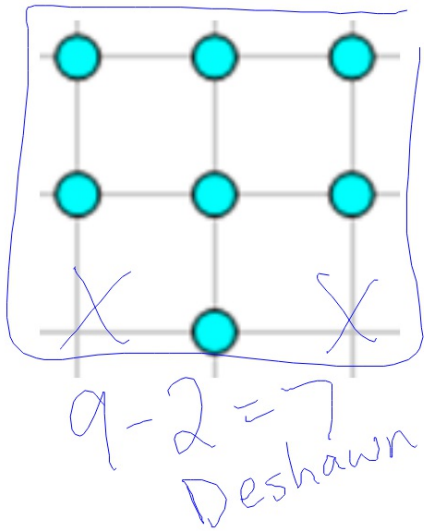
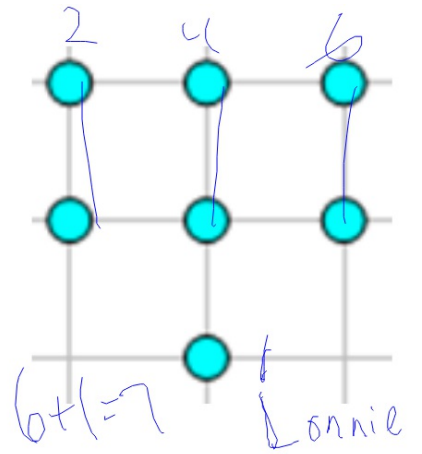
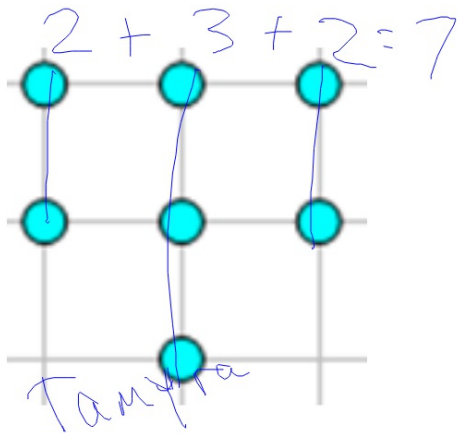
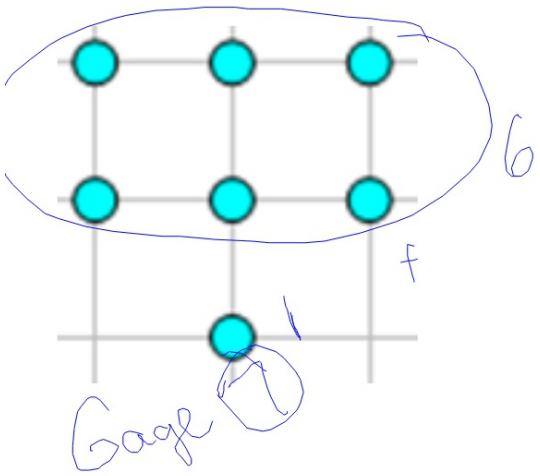
- **Turn in** any late homework to the bin on Ms. Walczak's desk.
- **Grab YOUR calculator** from the wall by the door.
- Take out your **Warm Up Sheet**.

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: _____

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

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

No SOLUTION

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

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

INFINITE SOLUTIONS

Types of Solutions: ① One solution "IDENTITY"
 $x=4$

② no solution $3=9$

③ INFINITE SOLUTIONS / IDENTITY
 $4=4$