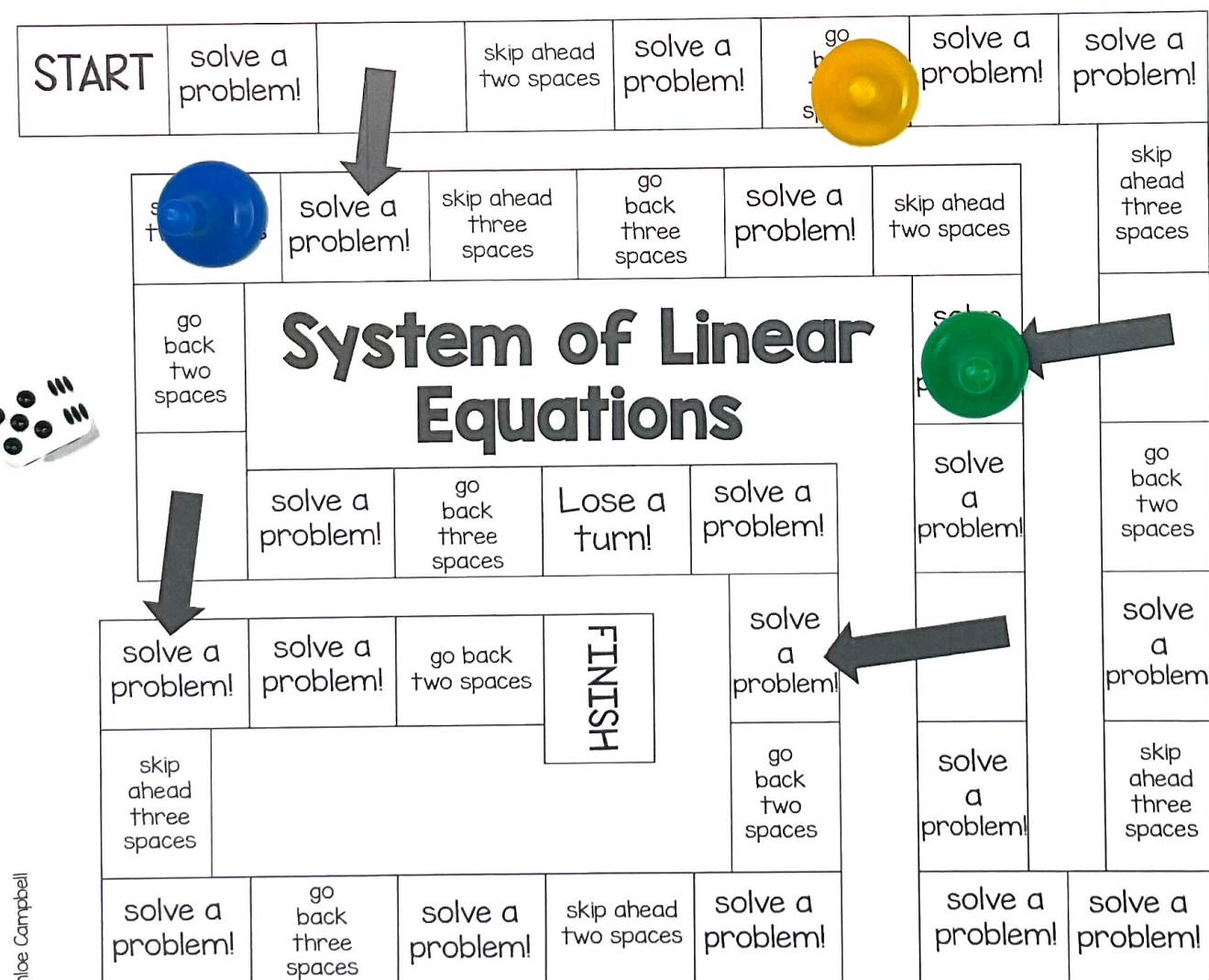


# Systems of Linear Equations

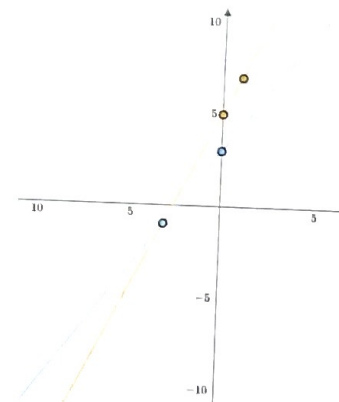
SCROLL  
to take a look inside!



Determine which ordered pair satisfies the system of linear equations by using elimination.

$$\begin{aligned} 2x - y &= 8 \\ 4x + y &= 22 \end{aligned}$$

Determine which ordered pair satisfies the system of linear equations.



Determine which ordered pair satisfies the system of linear equations by using elimination.

$$\begin{aligned} 4x - y &= 4 \\ 4x - 3y &= -4 \end{aligned}$$



# Math Skills Included:

11

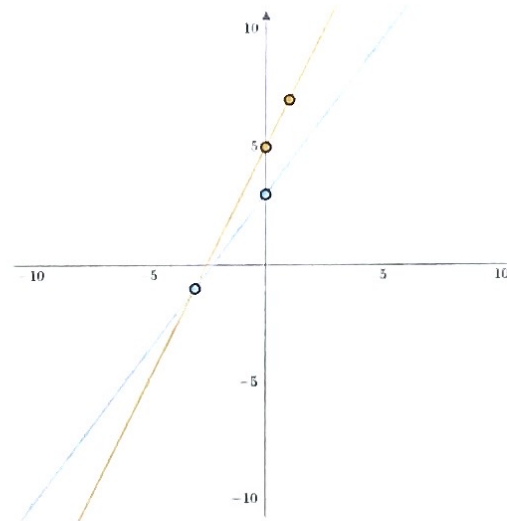
Determine which ordered pair satisfies the system of linear equations by using elimination.

$$-5x + y = 17$$

$$-5x + 2y = 14$$

10

Determine which ordered pair satisfies the system of linear equations.



14

Determine which ordered pair satisfies the system of linear equations by using elimination.

$$2x - y = 8$$

$$4x + y = 22$$

16

Determine which ordered pair satisfies the system of linear equations by using substitution.

$$\frac{1}{2}x - y = -5$$

$$2x + y = 5$$

13

Determine which ordered pair satisfies the system of linear equations by using elimination.

$$4x - y = 4$$

$$4x - 3y = -4$$

9

Determine which ordered pair satisfies the system of linear equations.

15

Determine which ordered pair satisfies the system of linear equations by using elimination.

$$4x - 2y = 12$$

$$8x + 2y = 24$$

12

Determine which ordered pair satisfies the system of linear equations by using elimination.

$$x + y = -22$$

$$5x - 3y = -17$$

**Determine which  
ordered pairs  
satisfy the system  
of linear equations**



# You'll Receive

- ★ Teacher Tips
- ★ Student Directions
- ★ Printable Math Board Game
- ★ Recording Sheet
- ★ Answer Key





# Student Recording Sheet

## System of Linear Equations

### System of Linear Equations Recording Sheet

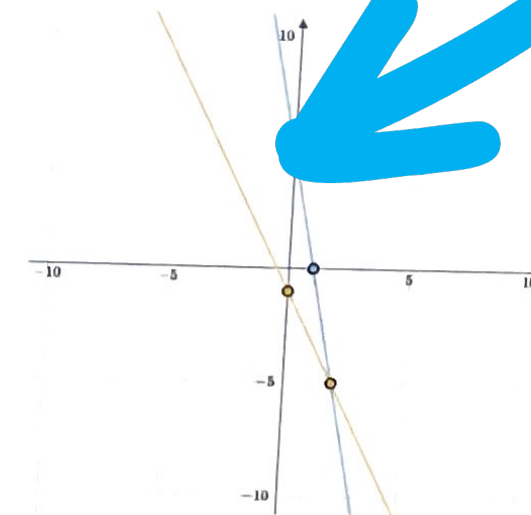
Name: \_\_\_\_\_

1	2	3	4
$(-1, 2)$	$(-2, 1)$	$(1, 2)$	$(-1, -4)$
5	6	7	8
$(-1, 6)$	$(-2, 0)$	$(-1, -1)$	$(-2, -1)$
9	10	11	12
$(2, -5)$	$(-3, -1)$	$(-4, -3)$	$(-4, -1)$
13	14	15	16

Determine which ordered pair satisfies the system of linear equations by using elimination.

$$\begin{aligned} 4x - y &= 4 \\ 4x - 3y &= -4 \end{aligned}$$

9 Determine which ordered pair satisfies the system of linear equations.





# HAPPY TEACHERS SAID...

“ This was a hit during centers. All students were engaged, and better yet – learning! Love this! ”

“ My students love playing games and a simple, easy prep game like this is a great addition to math centers, early finisher activities, and review days. ”

“ These are great for small group stations! What a fun task card adaptation. Students get to play a fun and competitive board game, but they also get to practice learning. Plus, the recording sheet makes it easy to grade and monitor student progress; they aren't just playing they are actively learning and participating with evidence of ability. Great resource! ”



# What's the Best Way to Use this Game?

- ✓ Math Centers or Stations
  - ✓ Whole Group Practice
    - ✓ Morning Work
    - ✓ Partner Activity
    - ✓ Early Finisher Tasks
      - ✓ Substitutes



# Tips for Playing Math Games:

- ★ Read the directions to the students and model how to play.
- ★ Be prepared with dice/spinner and game pieces for each player (paperclips, pencil top erasers, pieces from another game, etc.)
- ★ Every student should solve every problem – not just the person who rolls.
- ★ Create groups of 2-4 students. The lower number of students means the more focused students are while playing.



# Tips for Playing Math Games:

- ★ Remind students that the focus is not playing the game...that's just an added bonus! The focus should be on practicing the math skills.
- ★ Show students how to compare and discuss answers. Did you both get the same answer? If students get different answers, ask them to solve the problem using a different strategy or help coach each other through the problem.



# Why Board Games?

Research shows that challenge-based gamification in the classroom lead to an increase of 34.755% in student performance

(ScienceDirect, 2020).



# Students won't even realize they are learning!

**System of Linear Equations**

**System of Linear Equations Recording Sheet**

Name: _____			
1	2	3	4
$(-1, 2)$	$(-2, 1)$	$(1, 2)$	$(-1, -4)$
5	6	7	8
$(-1, 6)$	$(-2, 0)$	$(-1, -1)$	$(-2, -1)$
9	10	11	12

**Problem 14:** Determine which ordered pair satisfies the system of linear equations by using elimination.

$$\begin{aligned} 2x - y &= 8 \\ 4x + y &= 22 \end{aligned}$$

**Problem 10:** Determine which ordered pair satisfies the system of linear equations.

**Problem 13:** Determine which ordered pair satisfies the system of linear equations by using elimination.

$$\begin{aligned} 4x - y &= 4 \\ 4x - 3y &= -4 \end{aligned}$$

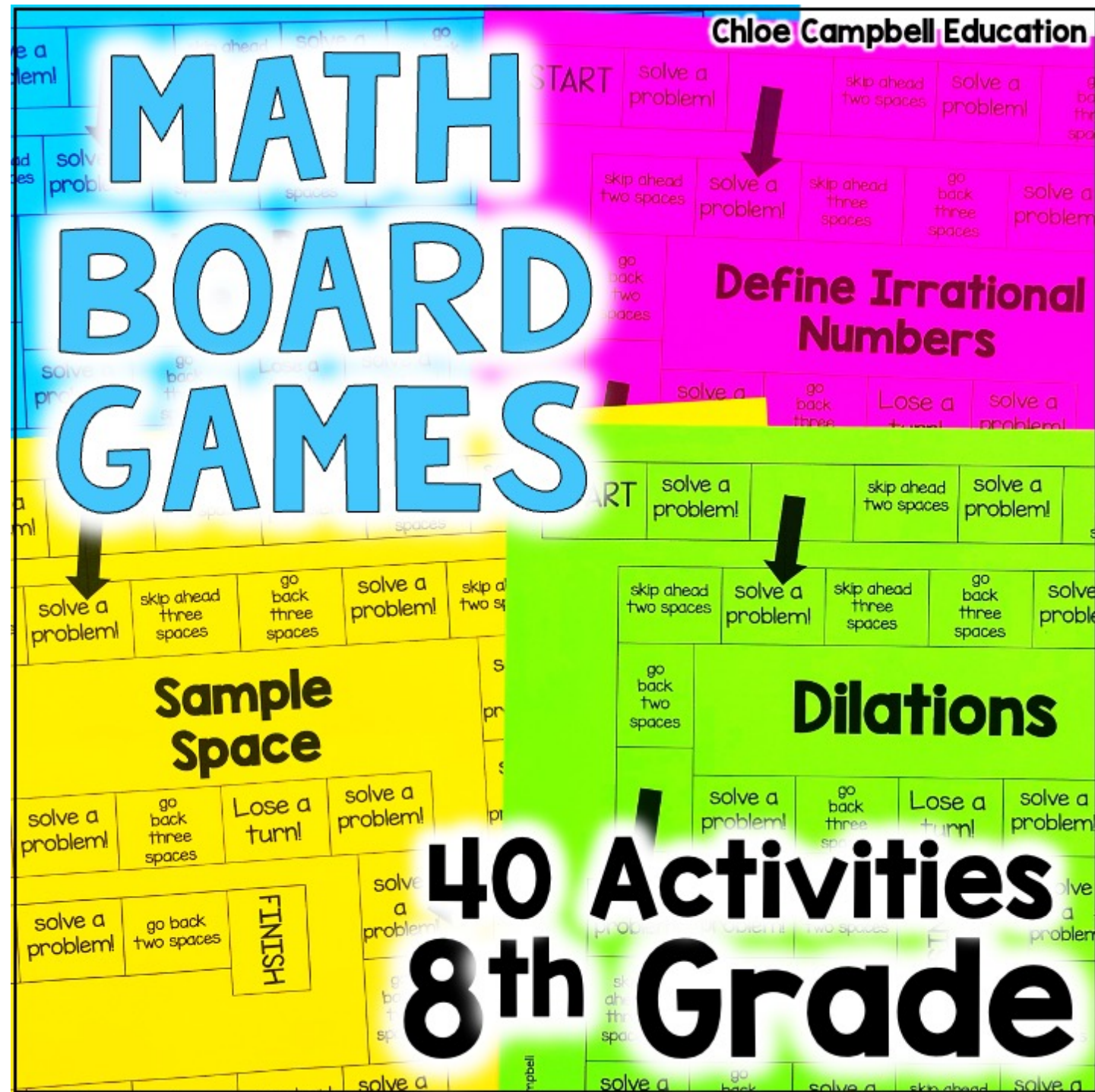
**Problem 9:** Determine which ordered pair satisfies the system of linear equations.

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