#### solve a solve a solve a skip ahead solve a **START** back problem! problem! problem! problem! two spaces three spaces ahead solve a skip ahead solve a back two spaces problem! problem three solve System of Linear back problem **Equations** spaces solve back solve a solve a ose a two problem! problem! turn! problem! spaces solve solve solve a HSINIsolve a go back problem! problem! two spaces problem! problem! solve ahead back ahead a three three spaces problem! spaces spaces solve a solve a solve a skip ahead solve a back solve a problem problem problem! problem! problemi spaces

# Systems of Linear Equations

SCROLL to take a look inside!

x + y = 280013x + 20y = 46200

15x + 5y = 5

#### Moth Skils Included:



A ballpark sells two types of tickets: a reserved seat for \$13 and a box seat for \$20. Yesterday, the ballpark sold a total of 2800 tickets for a total of \$46200.

Write the equations to find the number of reserved seats and box seats sold. Let x be the number of reserved seats sold and y be the number of box seats sold. Then solve by graphing.

$$x + y = 2800$$
$$13x + 20y = 46200$$

two linear equations by graphing

$$9x - 3y = 6$$

$$4x - 2y = 2$$

$$5x + 5y = 10$$
  
 $-4x - 4y = -8$ 



$$6x - 3y = 9$$
  
 $15x + 5y = 5$ 

$$x + y = 1$$

$$6x + 2y = 0$$



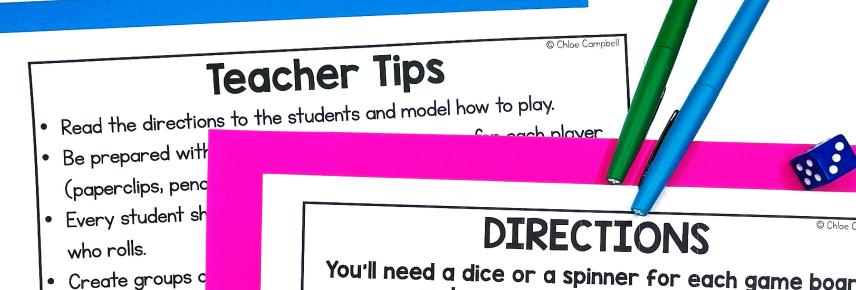


Printable Math Board Game





#### Receive



means the more

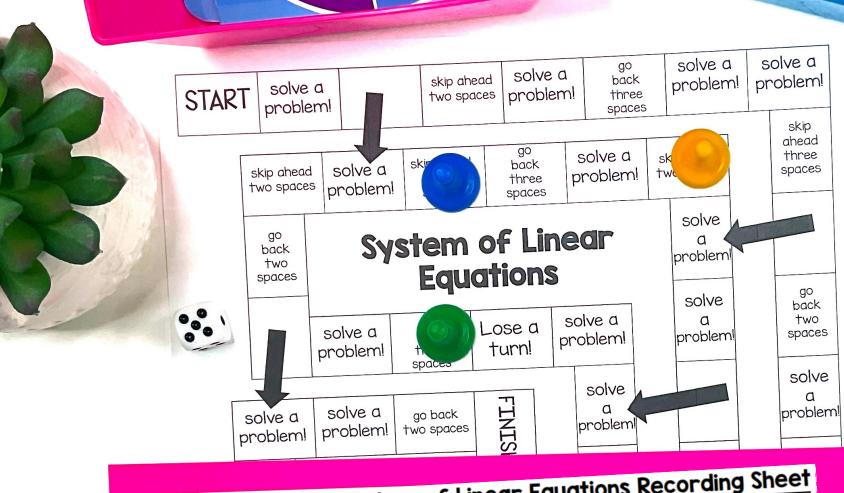
Remind students

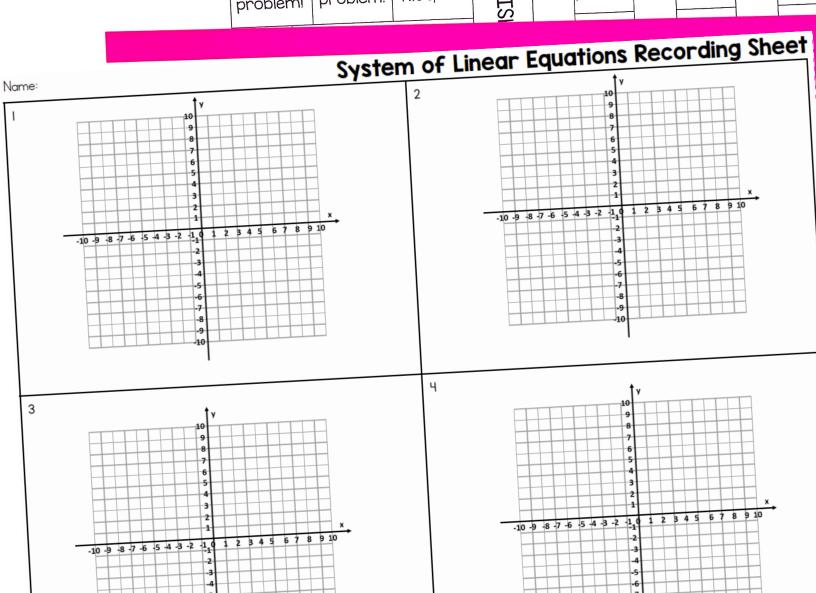
just an added

You'll need a dice or a spinner for each game board and a game piece for each player.

The person whose name comes first in alphabetical order will play first in the game. Roll the die and move that number of spaces on the game board. Each person will solve the problem on their own recording sheet. Everyone will double check their answers with each other. If you have the same correct answers, the next person should roll the die. If you have different answers, discuss it with your team. Find a mistake in your work or try to solve the same problem again, then the next player may go.

If you land on a space with an arrow, you must solve the problem before moving to the next space. \*If you finish early, play the game again.





2x-2y=6 4x+2y=4

6x - 3y = 9 15x + 5y = 5 7 x + y = 1

6x + 2y = 0

5  $q_x - 3y = 6$   $q_x - 2y = 2$ 

3 5x + 5y = 10 -4x - 4y = -8

A ballpark sells two types of tickets: a reserved seat for \$13 and a box seat for \$20. Yesterday, the ballpark sold a total of 2800 tickets for a total of \$46200.

Write the equations to find the number of reserved seats and box seats sold. Let x be the number of reserved seats sold and y be the number of box seats sold. Then solve by graphing.

x + y = 280013x + 20y = 46200

## Student Recording Sheet

### 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.

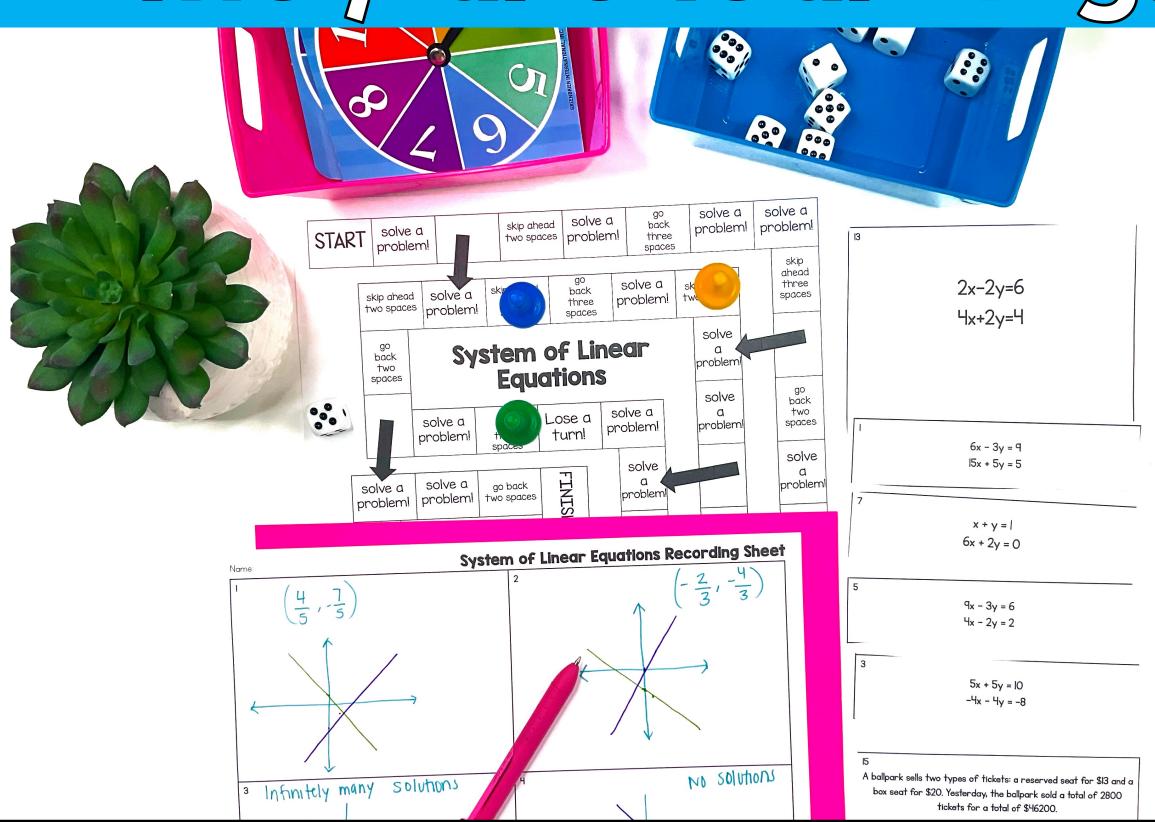
Show students how to compare and discuss answers. Did you both get the same answer? If students get different answers, ask them to solve the problem using a different strategy or help coach each other through the problem.

#### 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!



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achievement increase!

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