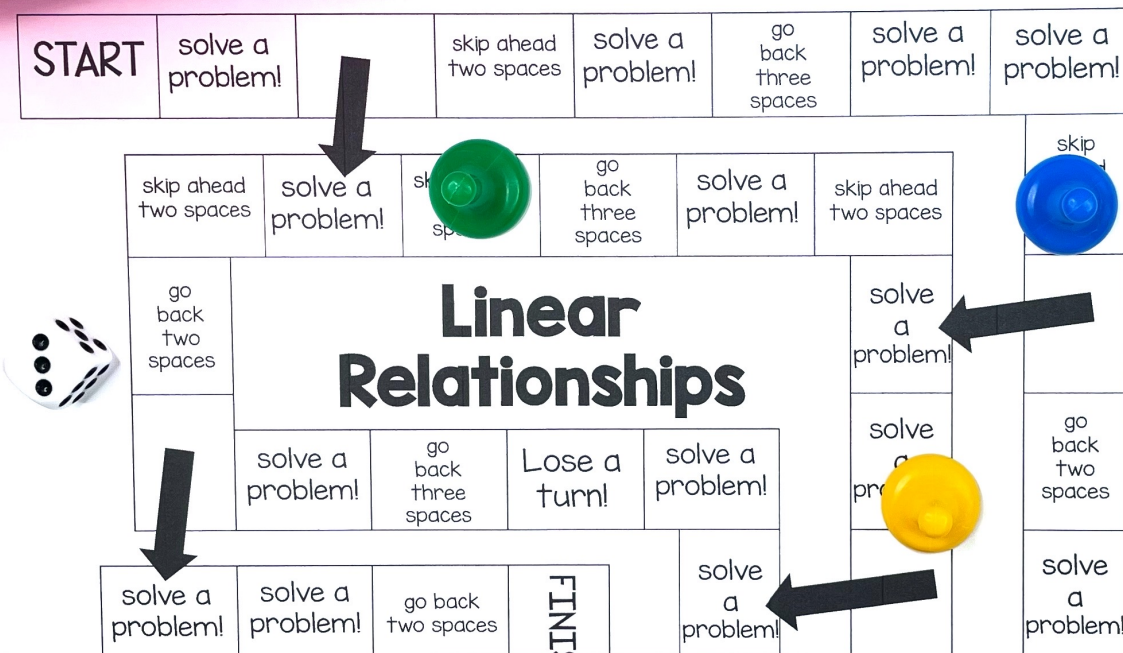


Multiplying Two Linear Expressions

SCROLL
to take a look inside!



Name: _____

Linear Relationships Recording Sheet			
1 Proportional	2 Proportional	3 Proportional	4 Not Proportional
5 Not proportional	6 $x = 6$	7 $x = 9$	8 $x = 8$
9	10	11	12

Solve for x.

$$\frac{4}{x} = \frac{2}{7}$$

14 Marcus is ordering pizzas. Each pizza costs \$8, including all taxes. Is the relationship between the number of pizzas ordered and the amount of money that Marcus spends proportional?

Solve for x.

$$\frac{x}{9} = \frac{5}{3}$$

16 Determine whether the following table represents a proportional relationship.

Math Skills Included:



13

Nicole runs a car rental service. A car can be rented for a day for eighty dollars and can be driven up to fifty miles; each mile after that will cost an additional dollar. Is the relationship between the number of miles driven and the cost of the rental proportional?

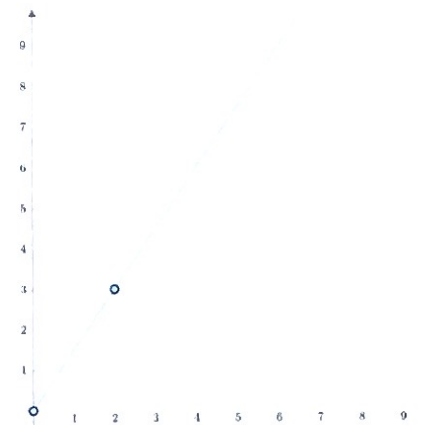
9

Solve for x.

$$\frac{x}{9} = \frac{5}{3}$$

16

Determine whether the following table represents a proportional relationship.



15

An amusement park charges an admission rate of fifty dollars per adult; each adult can pay a fee of twenty dollars to bring up to four children into the park with them. Is the relationship between the number of children an adult brings to the park and the amount that they spend proportional?

10

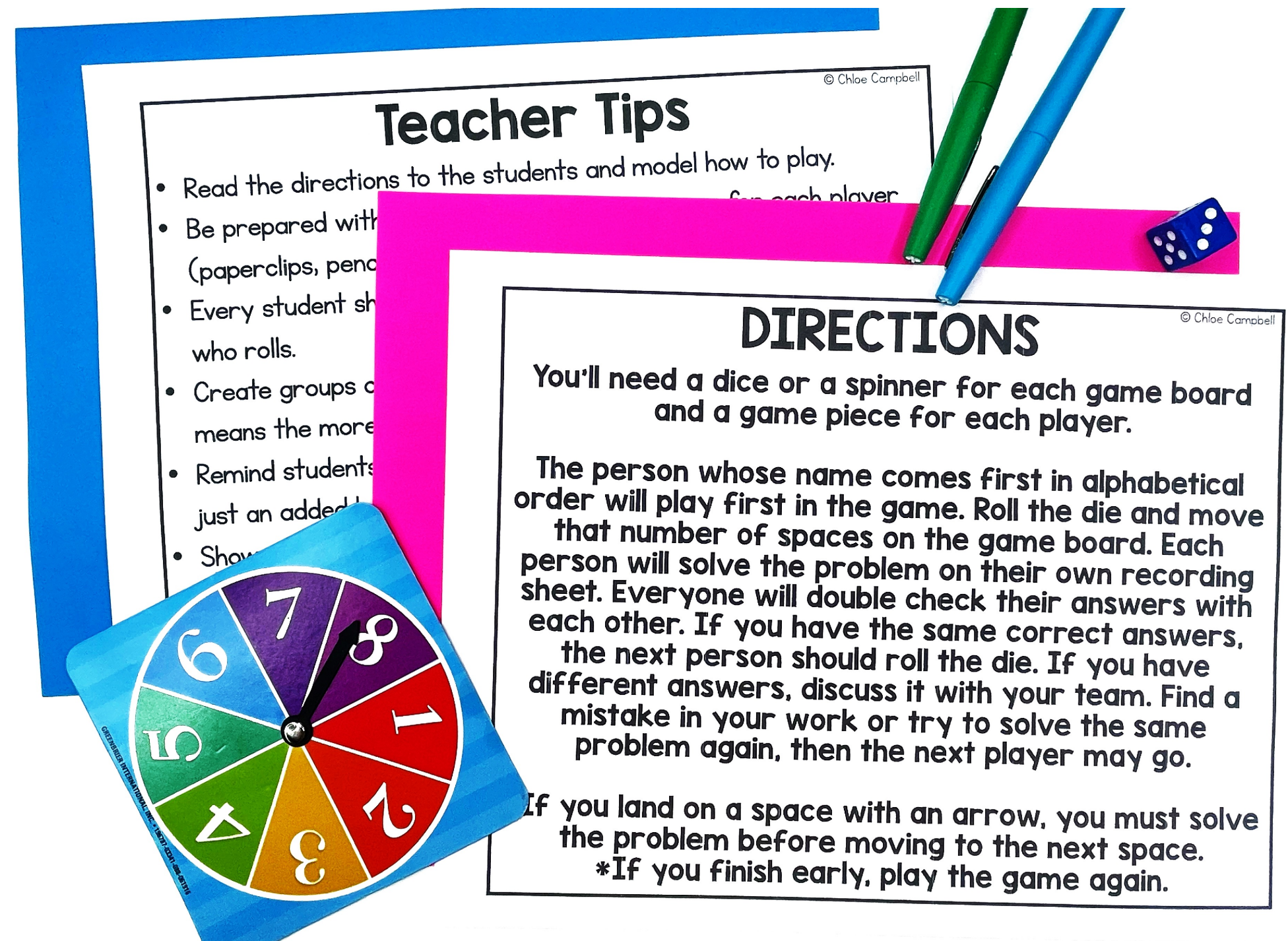
Solve for x.

$$\frac{4}{x} = \frac{2}{7}$$

Determine if a linear relationship is also a proportional relationship

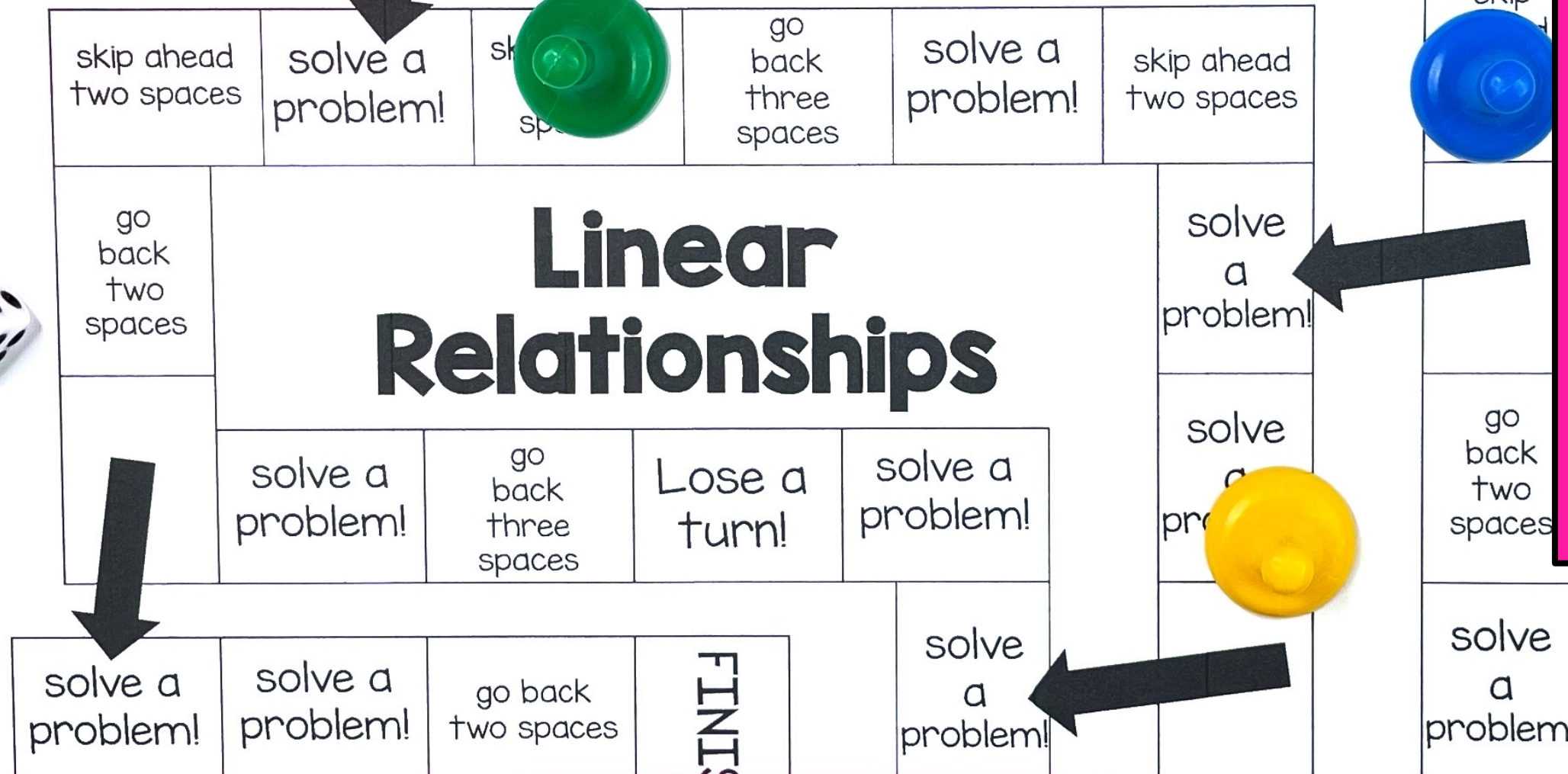
You'll Receive

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



Student Recording Sheet

Linear Relationships



money that Marcus spends proportional?

Solve for x.

$$\frac{x}{9} = \frac{5}{3}$$

Determine whether the following table represents a proportional relationship.



Name:

Linear Relationships Recording Sheet

1 proportional	2 proportional	3 proportional	4 Not Proportional
5 Not proportional	6 $x = 6$	7 $x = 9$	8 $x = 8$
9	10	11	12

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!

The image displays a collection of educational resources for a math activity. At the top left is a colorful spinner with sections numbered 1 through 9. Next to it is a blue tray containing several white dice. Below these is a board game titled "Linear Relationships". The board features a path of squares with instructions such as "START", "solve a problem!", "skip ahead two spaces", "go back three spaces", "Lose a turn!", and "FINISH". Three colored pawns (green, blue, and yellow) are placed on the board, with arrows indicating movement. To the right of the board game are two worksheets. The first worksheet has the instruction "Solve for x." followed by the equation $\frac{4}{x} = \frac{2}{7}$. The second worksheet has the instruction "Solve for x." followed by the equation $\frac{x}{9} = \frac{5}{3}$. Below the board game is a "Linear Relationships Recording Sheet" with a table for recording answers. A pink pen is resting on the recording sheet.

Linear Relationships

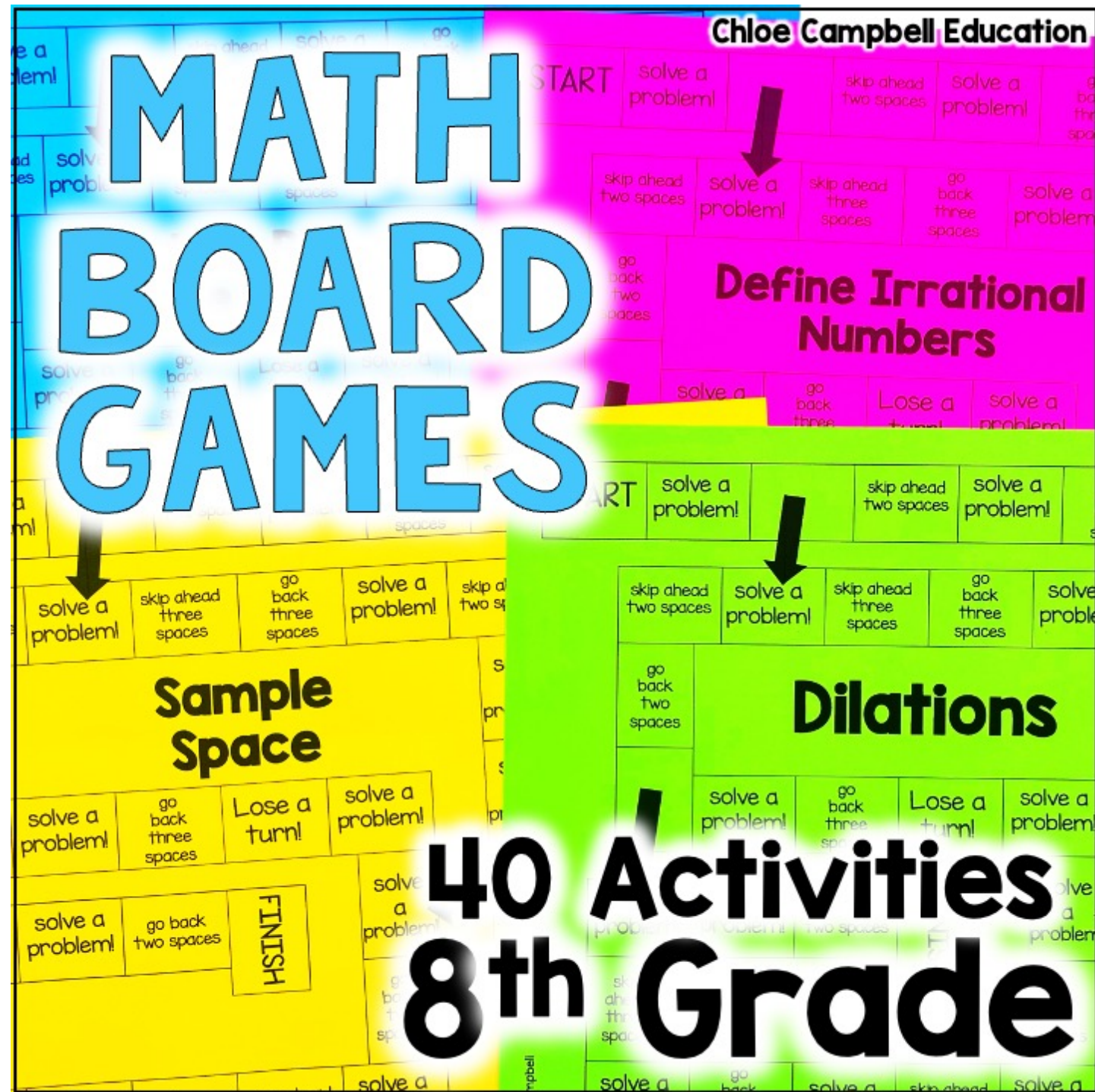
Linear Relationships Recording Sheet

Name: _____			
1 Proportional	2 Proportional	3 Proportional	4 Not Proportional
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9	10	11	12

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