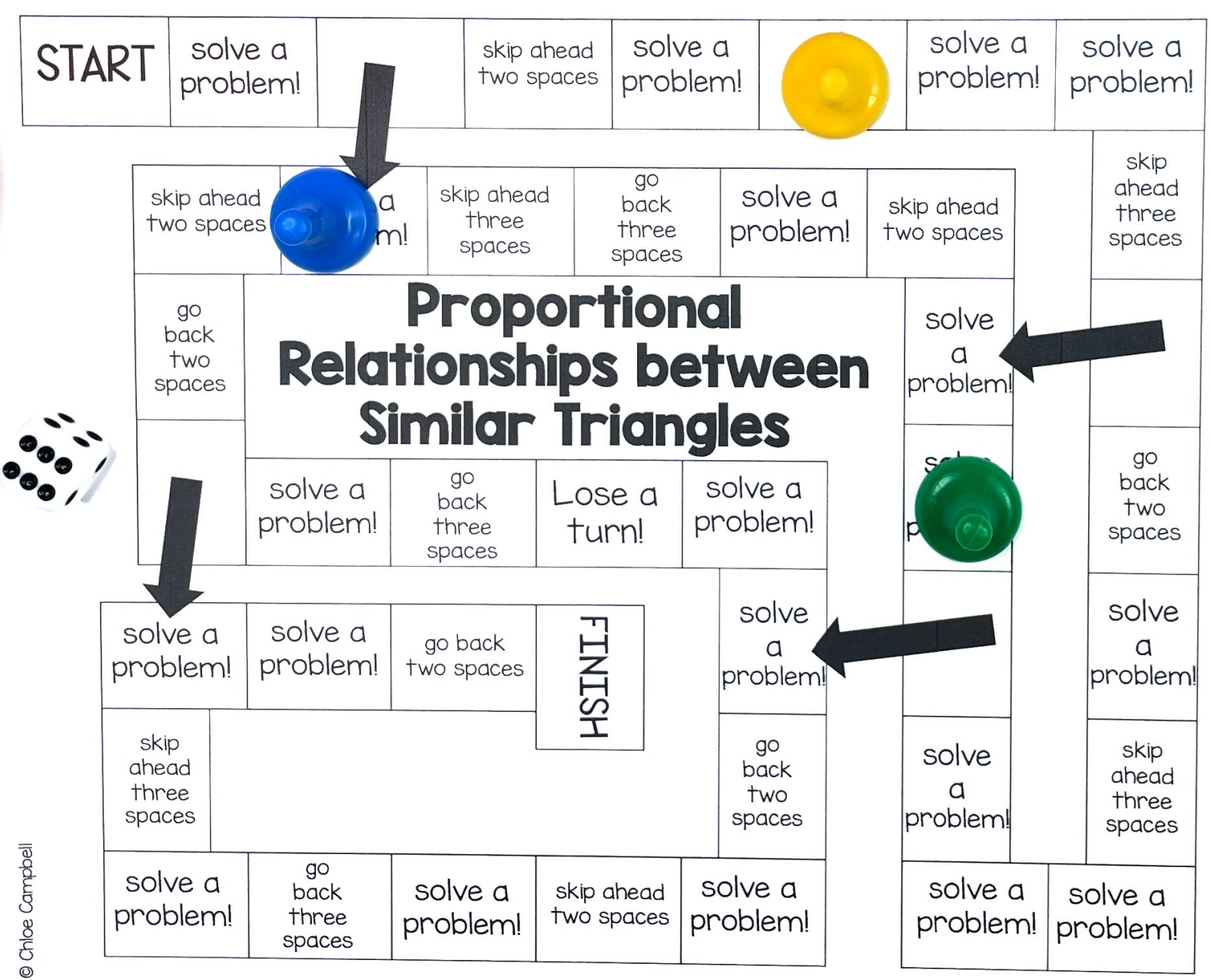


# Proportional Relationships

## Between Similar Triangles

SCROLL  
to take a look inside!



© Chloe Campbell

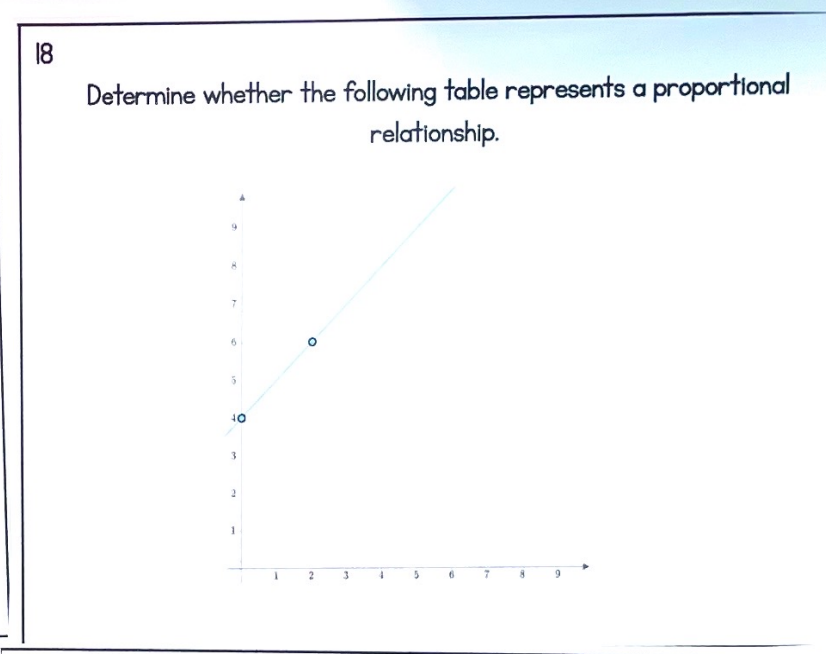
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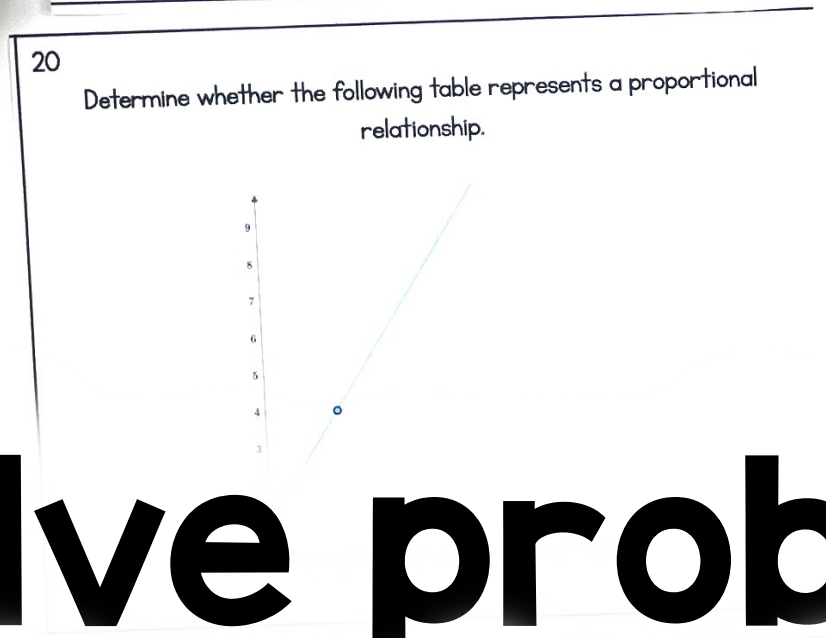
# Math Skills Included:



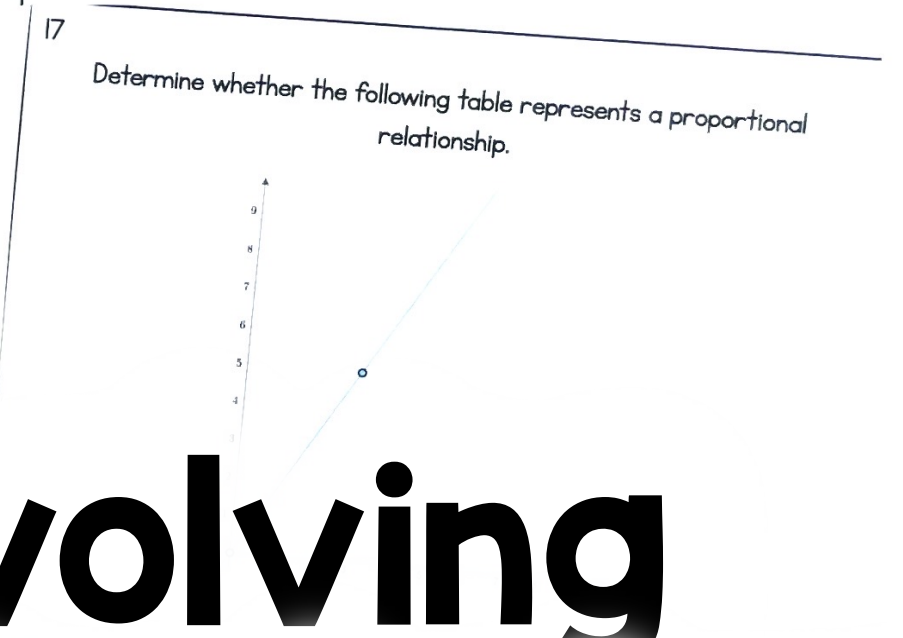
8 A 49-foot tall tree casts a shadow that is 14 feet long. Wanda is 5 feet tall. How long is Wanda's shadow? Round to two decimal places if necessary.



5 A 54-foot tall tree casts a shadow that is 12 feet long. Alex is 5 feet tall. How long is Alex's shadow? Round to two decimal places if necessary.



6 A 28-foot tall tree casts a shadow that is 8 feet long. Matthew is 5.5 feet tall. How long is Matthew's shadow? Round to two decimal places if necessary.



**Solve problems involving proportional relationships between similar triangles**



# You'll Receive

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





START solve a problem! two spaces problem! problem! problem!

skip ahead two spaces a m! skip ahead three spaces go back three spaces solve a problem! skip ahead two spaces skip ahead three spaces

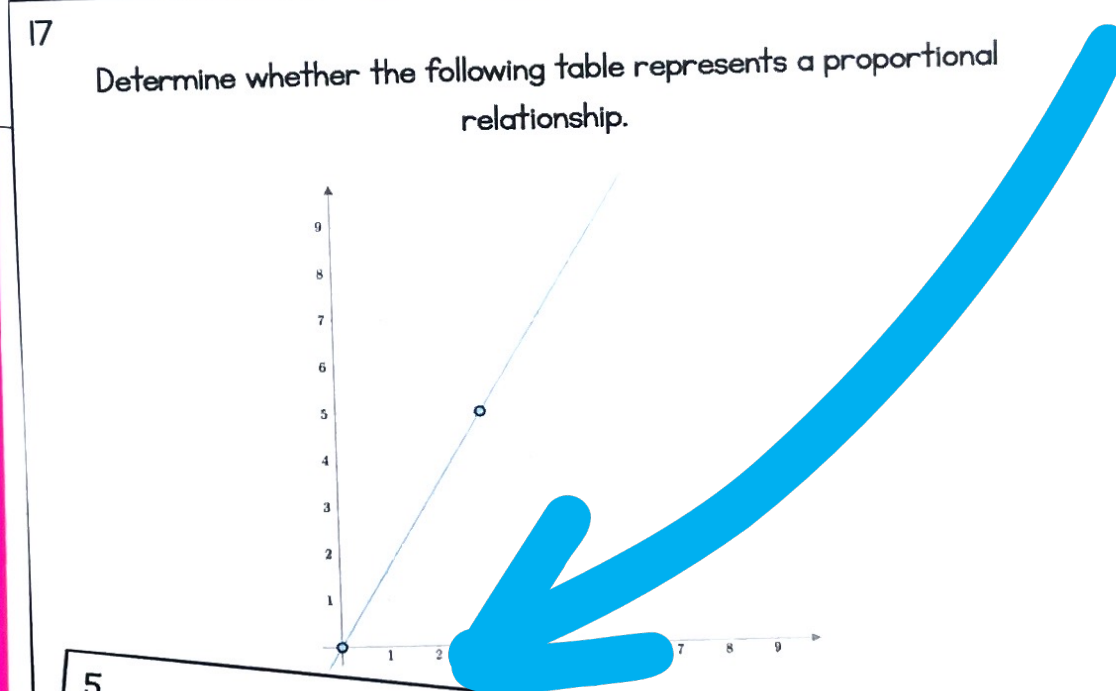
## Proportional Relationships between Similar Triangles

go back two spaces solve a problem! go back three spaces Lose a turn! solve a problem! solve a problem! solve a problem! solve a problem! solve a problem!

FIN

# Student Recording Sheet

6 A 28-ft shadow Matthew is is Matthew's shadow? Round to two decimal places if --



5 A 54-foot tall tree casts a shadow that is 12 feet long. Alex is 5 feet tall. How long is

Name: **Proportional Relationships between Similar Triangles Recording Sheet**

1 1.63 ft	2 3.67 ft	3 3 ft	4 1.2 ft
5 1.11 ft	6 1.57 ft	7 33 ft	8 1.43 ft
9 1.33 ft	10 1.3 ft	11 12 ft	12 16 ft



# 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.



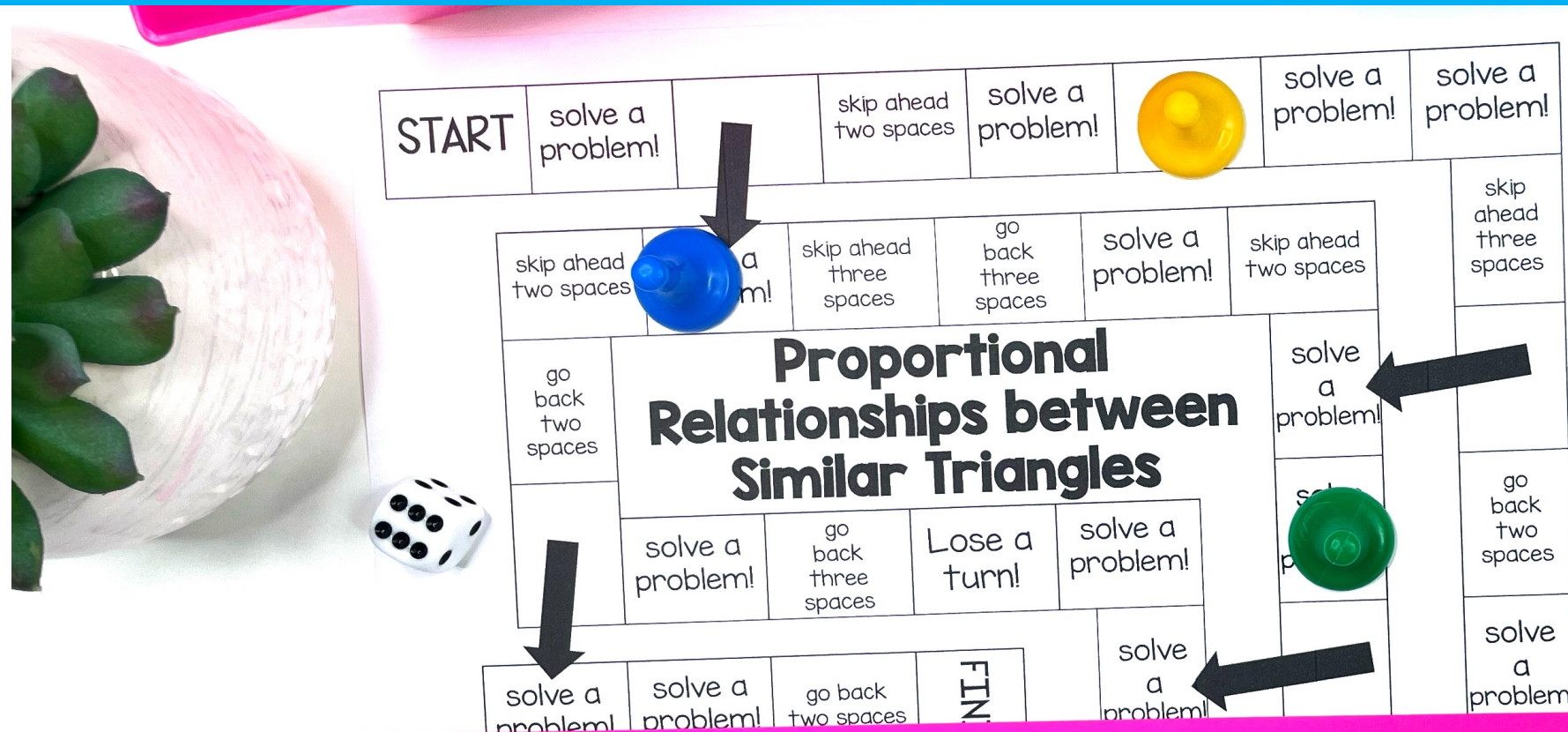
# Why Board Games?

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

(ScienceDirect, 2020).

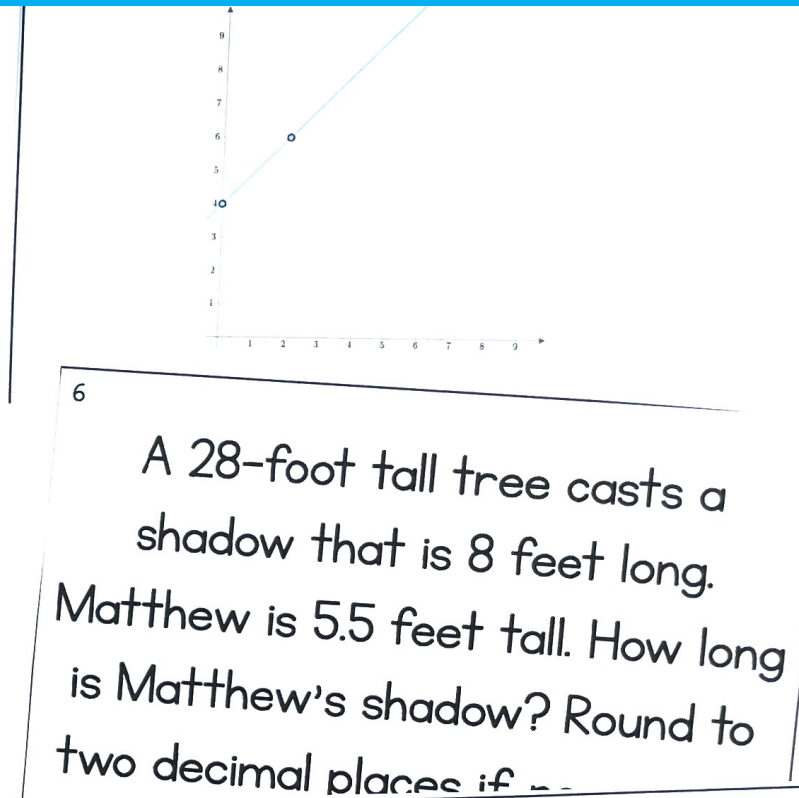


# Students won't even realize they are learning!

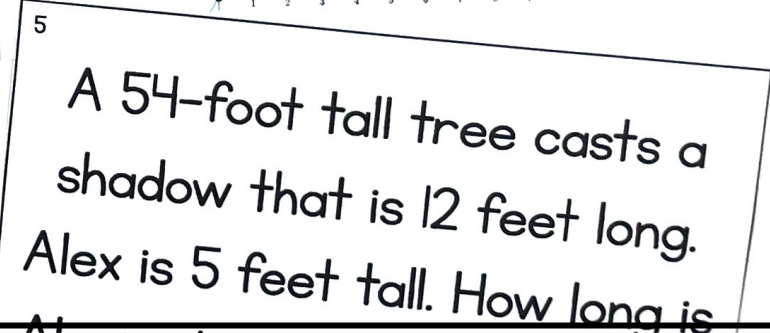
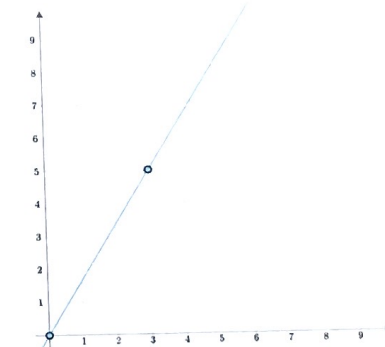


Name: \_\_\_\_\_ **Proportional Relationships between Similar Triangles Recording Sheet**

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9 1.33 ft	10 1.3 ft	11 12 ft	12 16 ft



17 Determine whether the following table represents a proportional relationship.

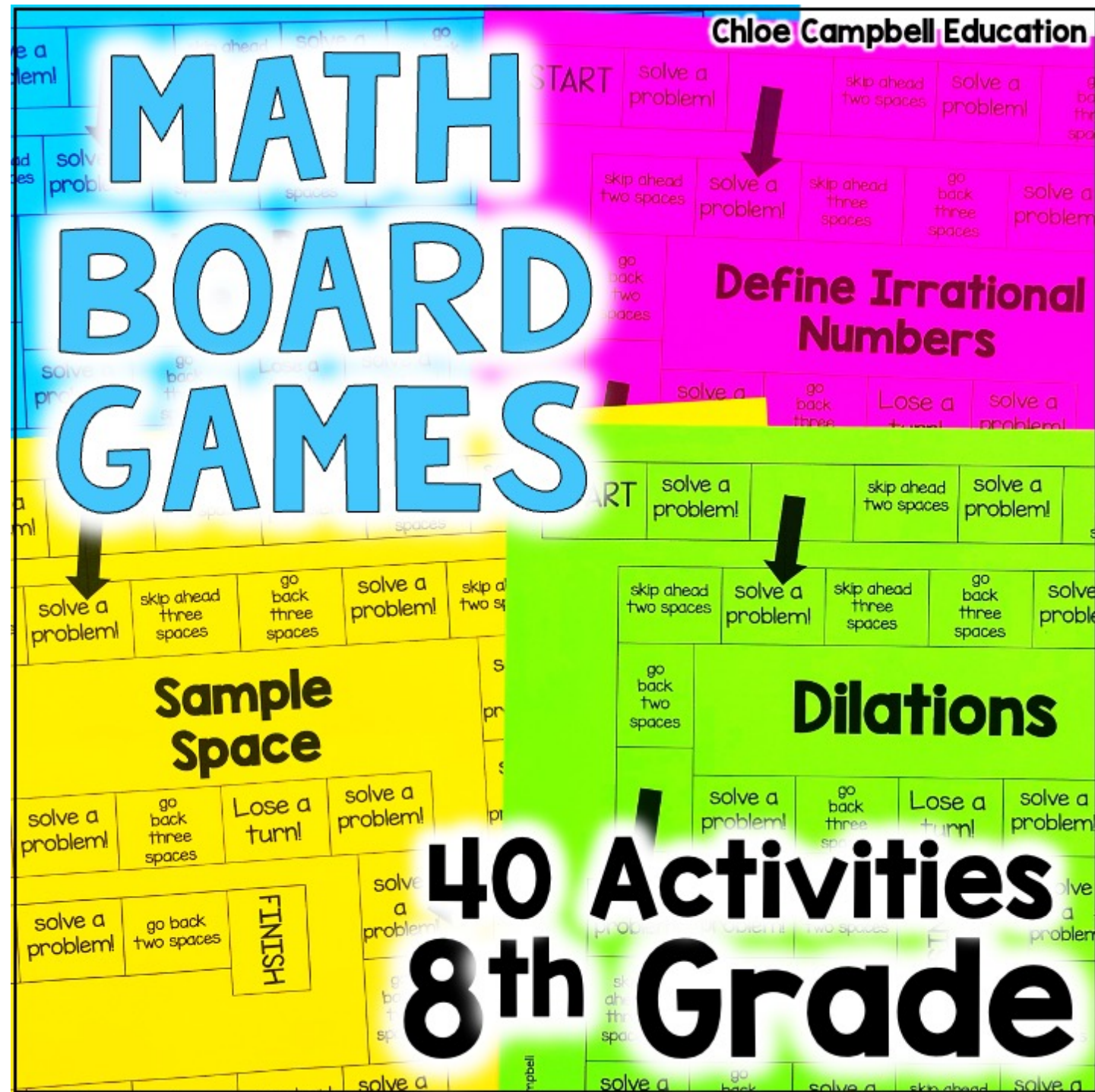


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