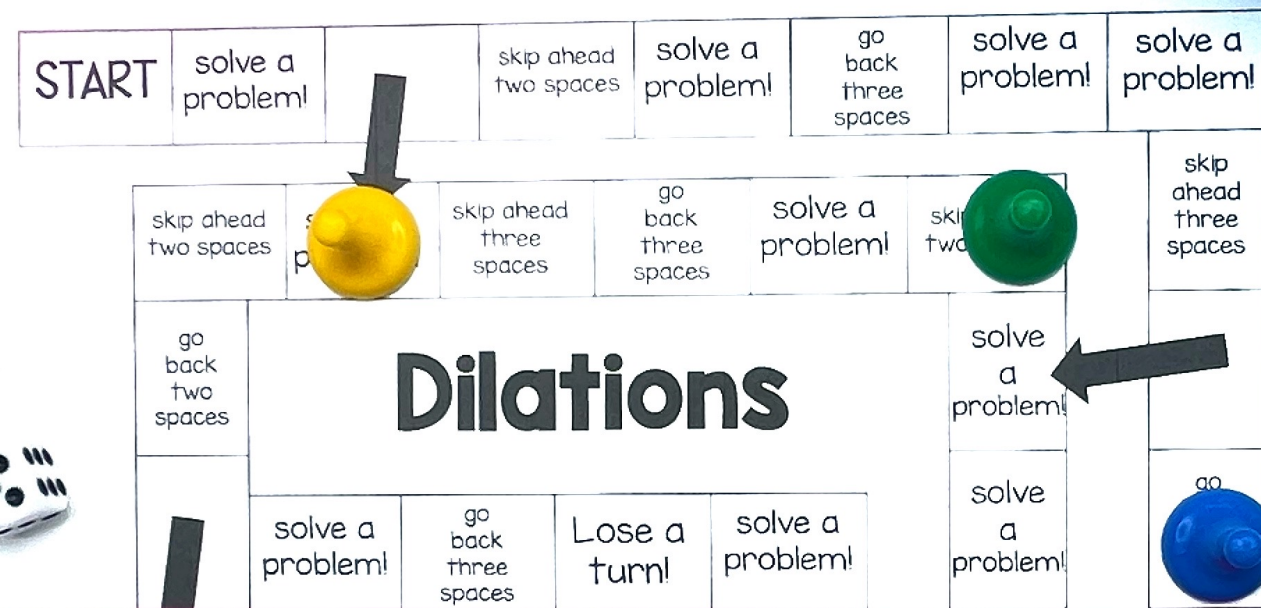


# Dilations & Scale Factors



Name \_\_\_\_\_

**Dilations Recording Sheet**

1	$\frac{3}{2}$	2	3	3	2	4	$\frac{3}{2}$
5	2	6	$\frac{1}{2}$	7	3	8	$\frac{5}{2}$
9	2	10	2	11	$\frac{1}{2}$	12	$\frac{5}{2}$
13		14		15			
17		18		19			

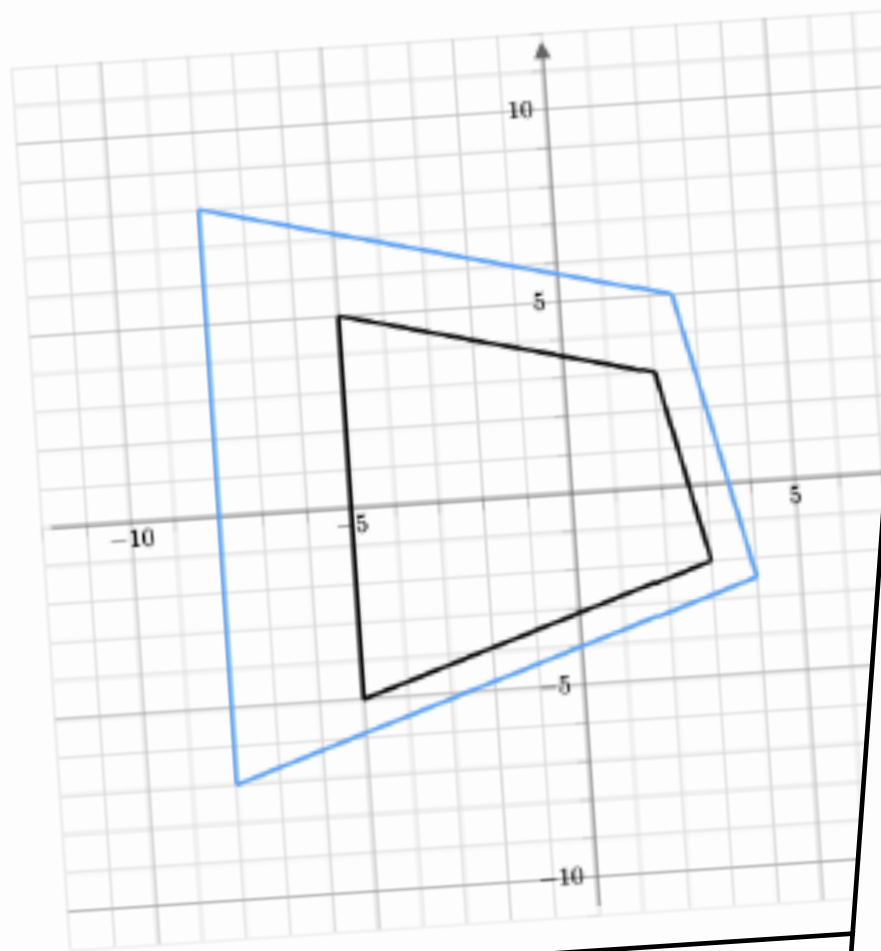
**SCROLL**  
to take a look inside!



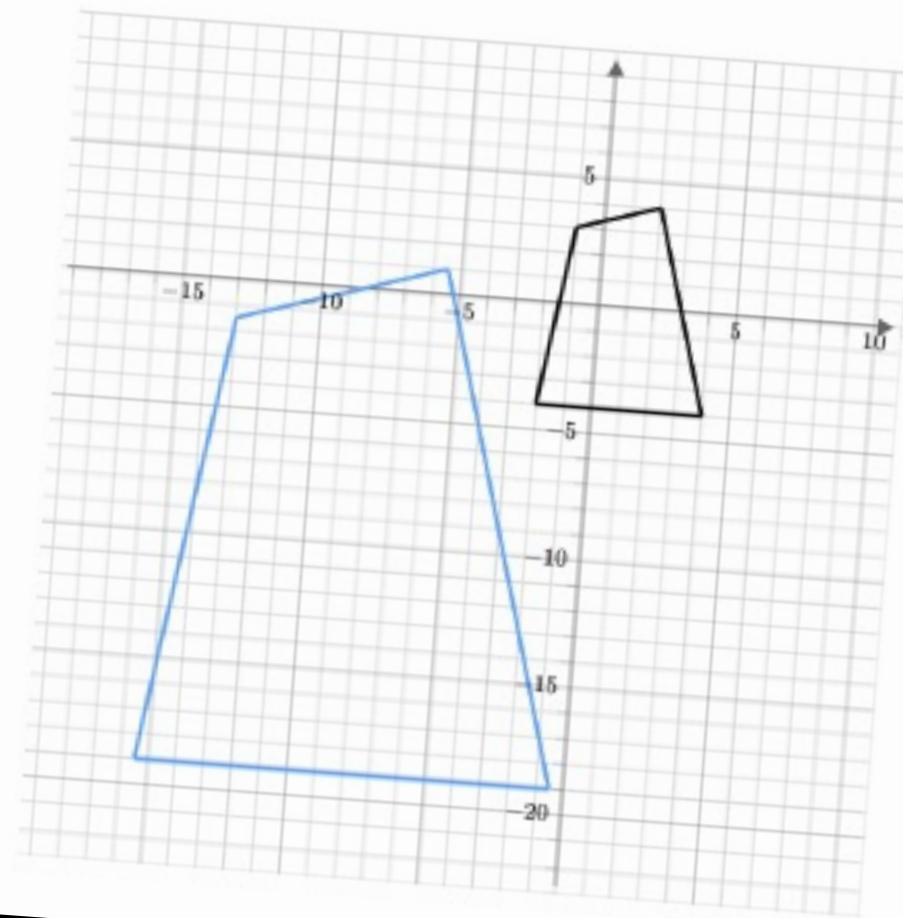
# Math Skills Included:

**Identify the scale factor that describes the relationship**

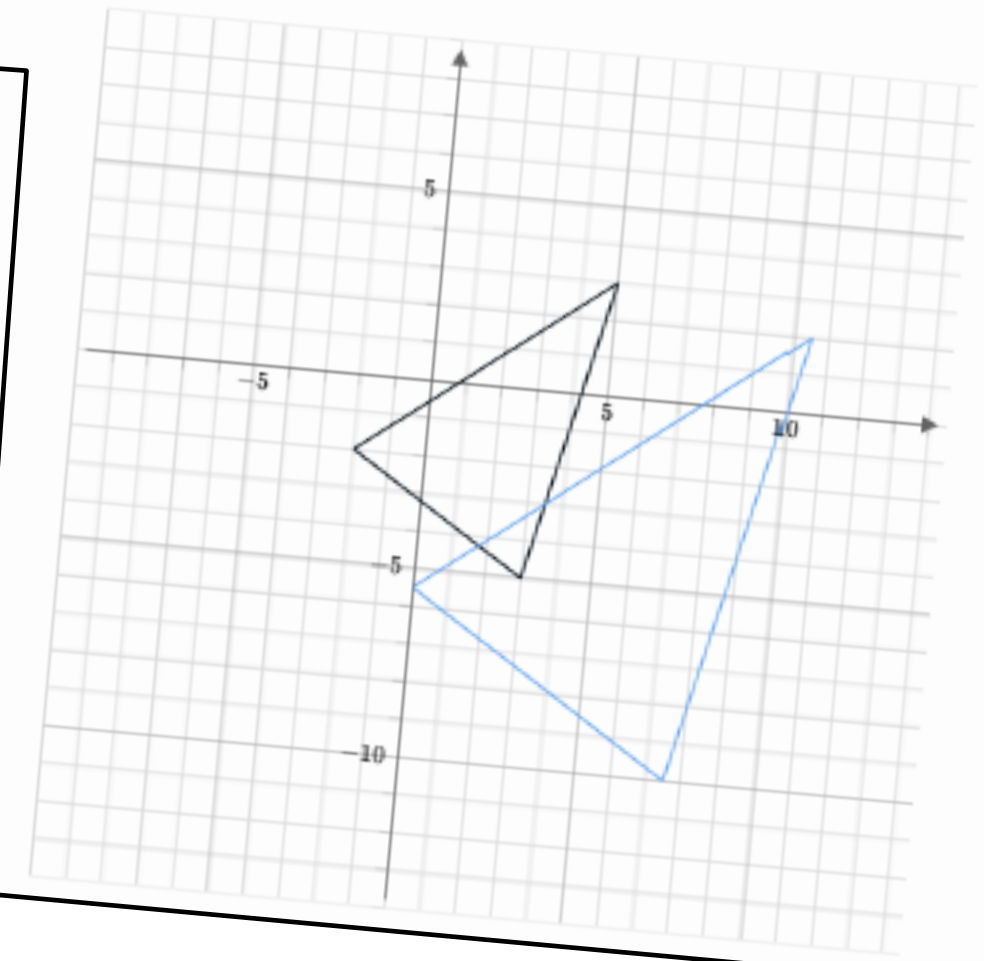
16 - Identify the scale factor.



12 - Identify the scale factor.

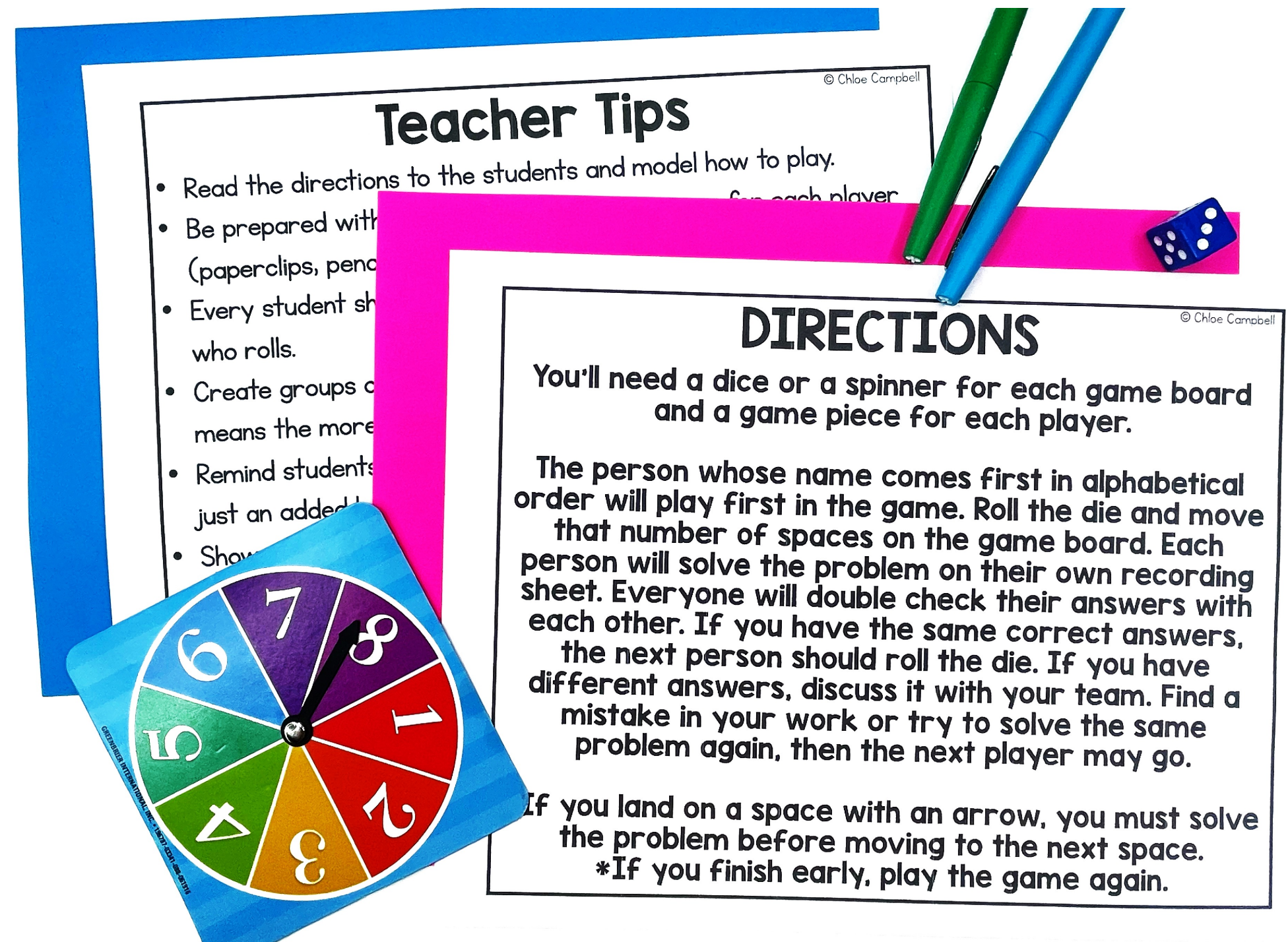


1 - Identify the scale factor.



# You'll Receive

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





Game board for 'Dilations' featuring a grid of instructions and three colored pegs (yellow, green, blue) with arrows pointing to specific spaces.

Instructions on the board include:

- skip ahead two spaces
- skip ahead three spaces
- go back three spaces
- solve a problem!
- skip two
- skip ahead three spaces
- go back two spaces
- solve a problem!
- solve a problem!
- go back three spaces
- Lose a turn!
- solve a problem!
- solve a problem!
- go

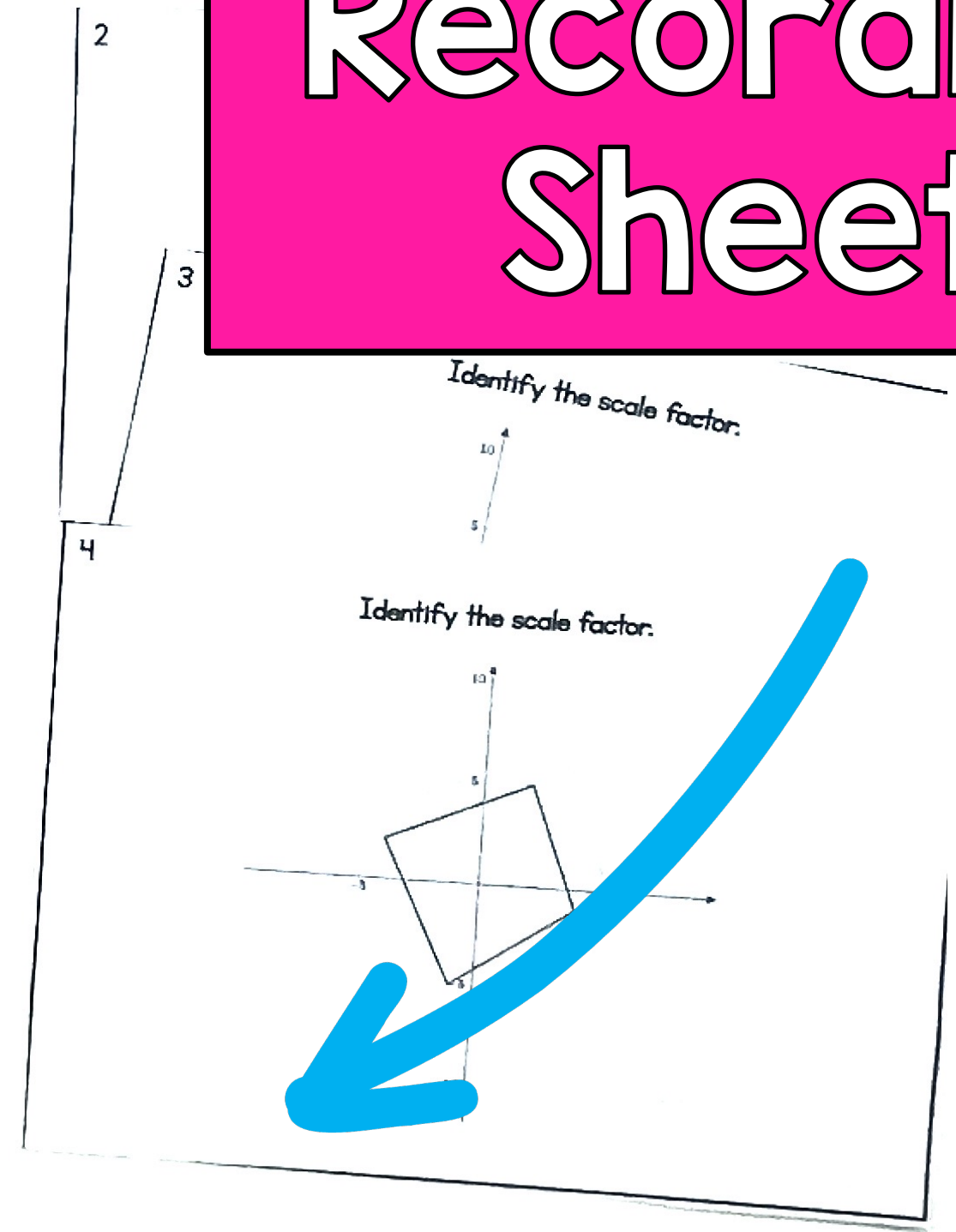
The word **Dilations** is prominently displayed in the center.

# Student Recording Sheet

Name \_\_\_\_\_

**Dilations Recording Sheet**

1 $\frac{3}{2}$	2 3	3 2	4 $\frac{3}{2}$
5 2	6 $\frac{1}{2}$	7 3	8 $\frac{5}{2}$
9 2	10 2	11 $\frac{1}{2}$	12 $\frac{5}{2}$
13	14	15	
17	18	19	



# 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 materials designed for a math activity. At the top, a blue banner contains the text "Students won't even realize they are learning!". Below this, a game board titled "Dilations" is shown. The board is a grid of squares with various instructions such as "solve a problem!", "skip ahead two spaces", "go back three spaces", and "Lose a turn!". A yellow pin is placed on the board, and a green pin is placed on the "Dilations" title. To the left of the board is a small potted plant. To the right is a blue tray containing several dice. Below the game board is a "Dilations Recording Sheet" with a grid of 16 squares. A red pen is resting on the grid. The grid contains the following values:

1	2	3	4
$\frac{3}{2}$	3	2	$\frac{3}{2}$
5	$\frac{1}{2}$	$\frac{3}{2}$	$\frac{5}{2}$
9	2	$\frac{1}{2}$	$\frac{5}{2}$
13			
17			

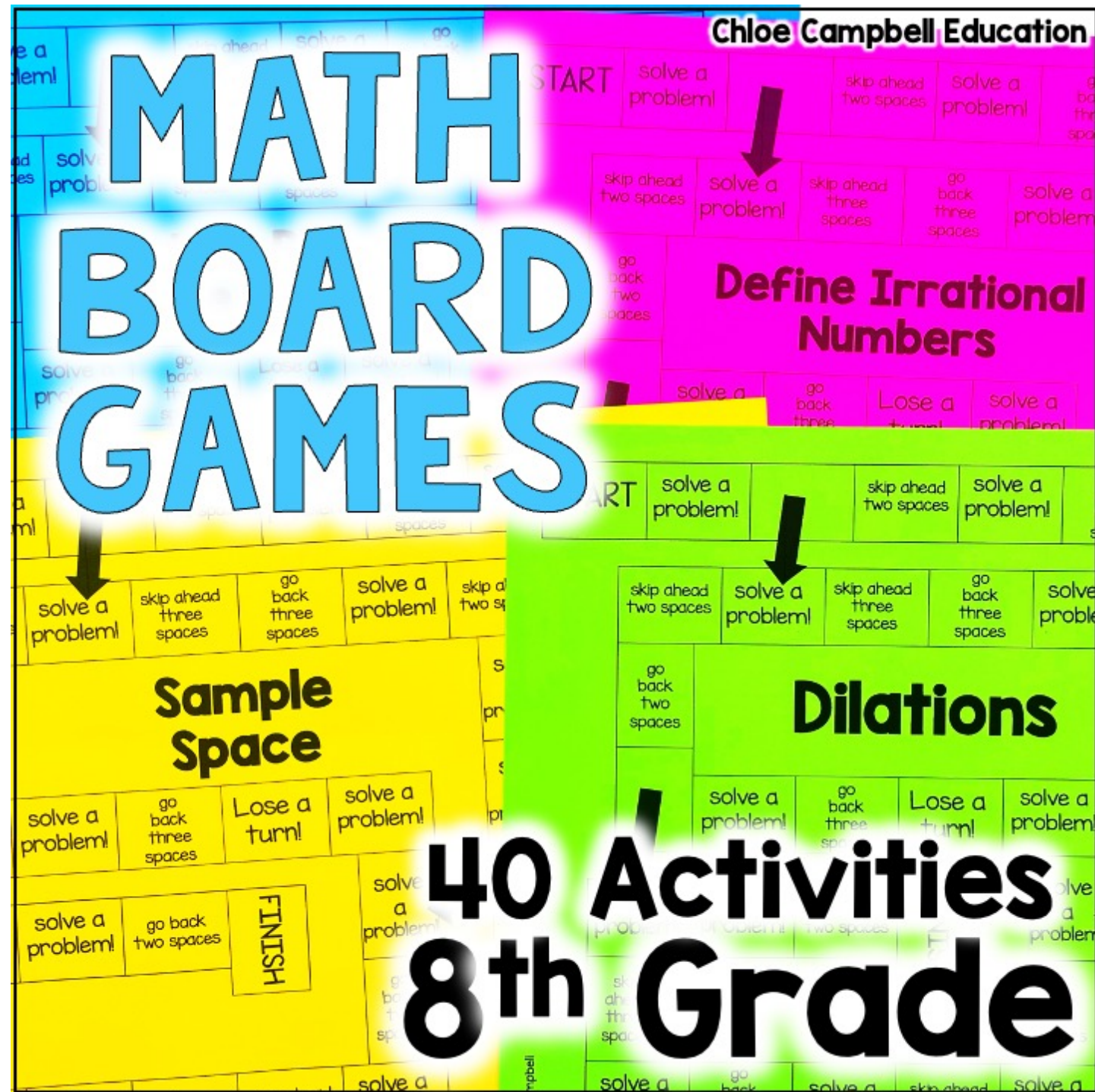
To the right of the recording sheet are three worksheets, each with a coordinate plane and the instruction "Identify the scale factor:". The first worksheet shows a triangle with vertices at (0,0), (1,0), and (0,1). The second worksheet shows a triangle with vertices at (0,0), (10,0), and (0,10). The third worksheet shows a square with vertices at (0,0), (5,0), (5,5), and (0,5).



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