

# Interior Angle Sums

SCROLL  
to take a look inside!

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

## Interior Angle Sums Recording Sheet

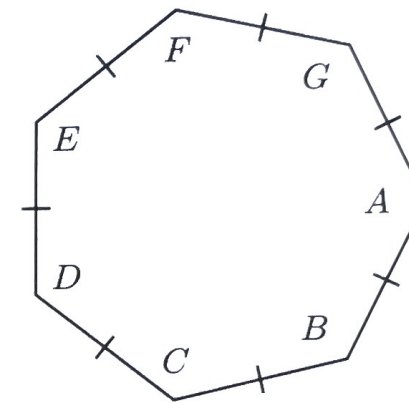
1 $1,260^\circ$	2 $540^\circ$	3 $1,260^\circ$	4 $1,260^\circ$
5 $900^\circ$	6 $720^\circ$	7 $900^\circ$	8 $1,260^\circ$
9 $1,080^\circ$	10 $720^\circ$	11 $28.57^\circ$	12 $135^\circ$

START solve a problem! ahead spaces solve a problem! go back three spaces solve a problem! solve a problem!

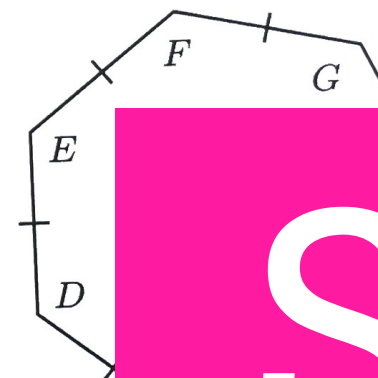
skip ahead two spaces solve a problem! skip ahead three spaces go back three spaces solve a problem! skip ahead two spaces skip ahead three spaces

## Interior Angle Sums

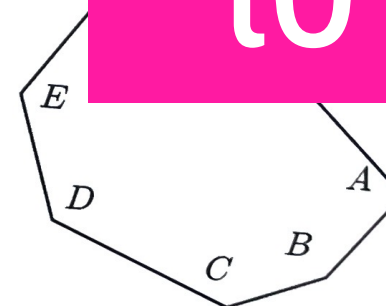
Find the sum of the interior angles of the polygon below.



Find the measure of angle  $\angle G$ .



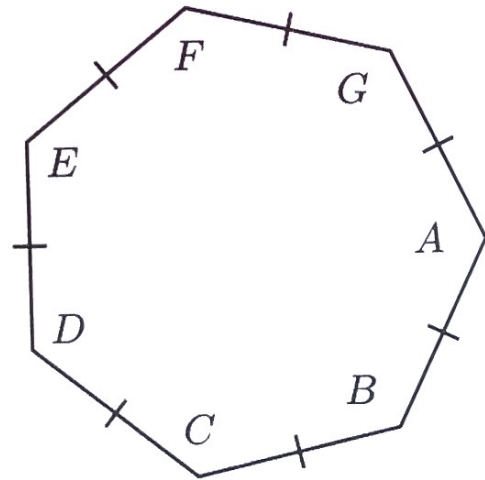
Find the sum of



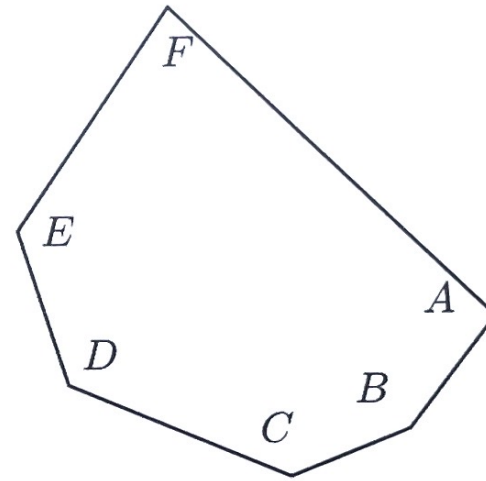


# Math Skills Included:

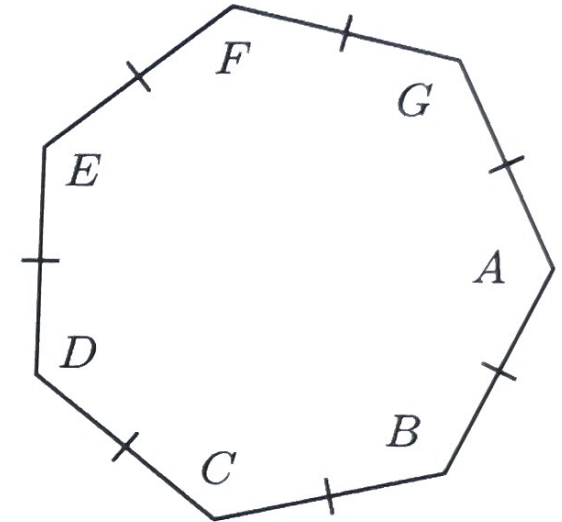
5 Find the sum of the interior angles of the polygon below.



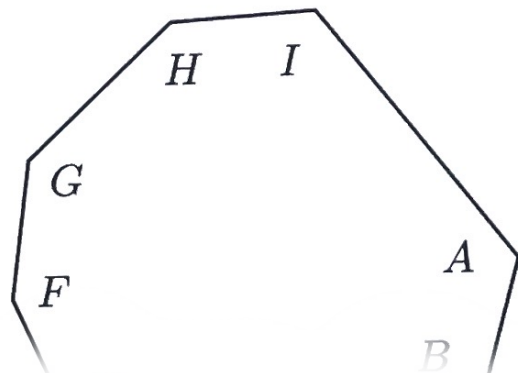
6 Find the sum of the interior angles of the polygon below.



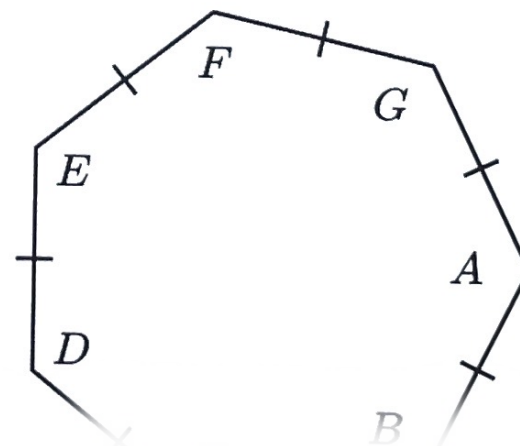
7 Find the sum of the interior angles of the polygon below.



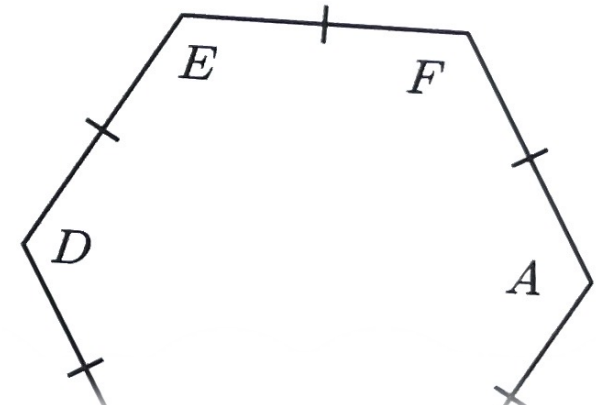
8 Find the sum of the interior angles of the polygon below.



17 Find the measure of angle  $\angle G$ .



19 Find the measure of angle  $\angle F$ .

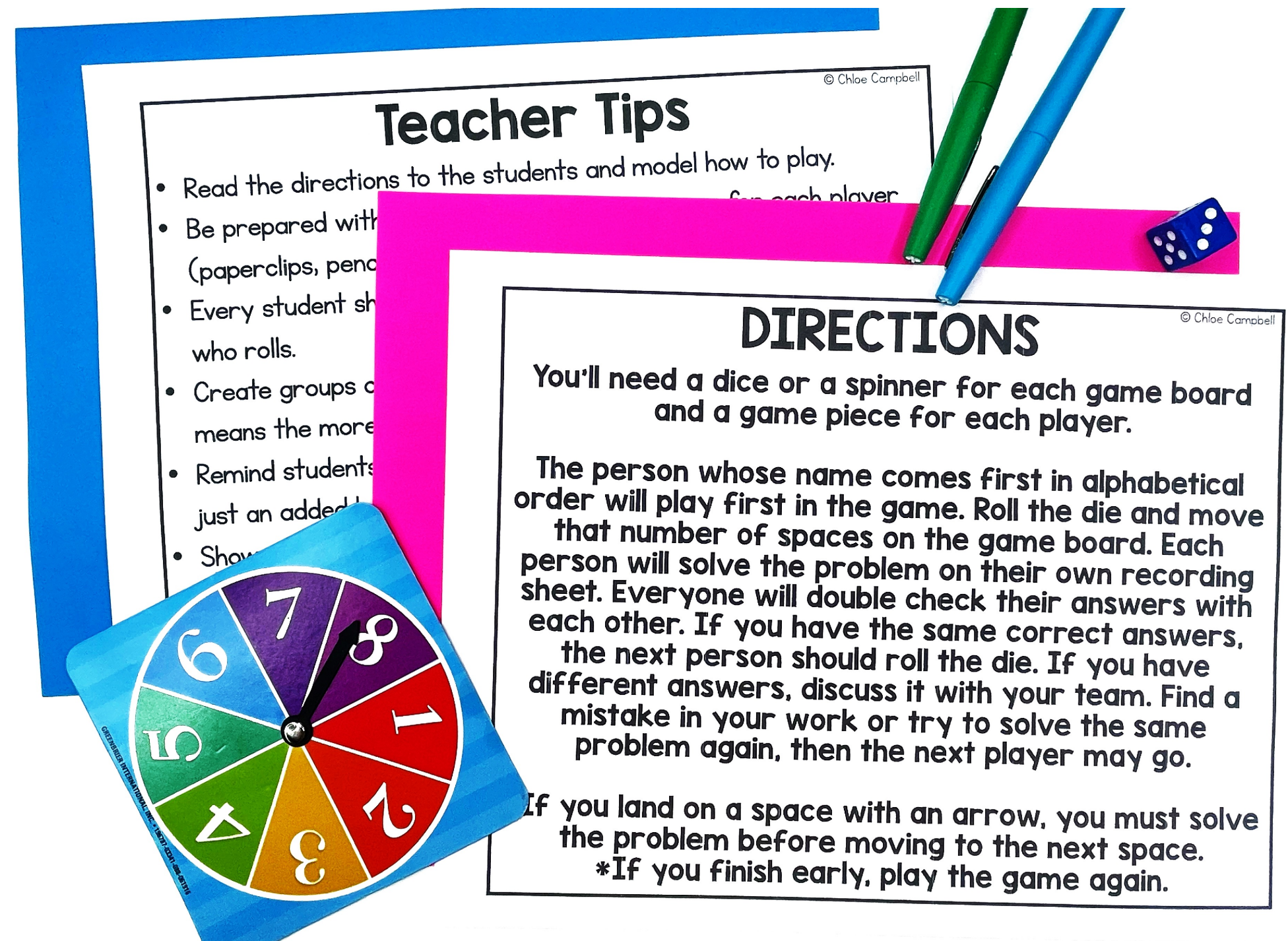


## Use formulas for the sums of the interior angles of regular polygons



# You'll Receive

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





# Student Recording Sheet

START solve a problem! ahead spaces solve a problem! go back three spaces solve a problem! solve a problem!

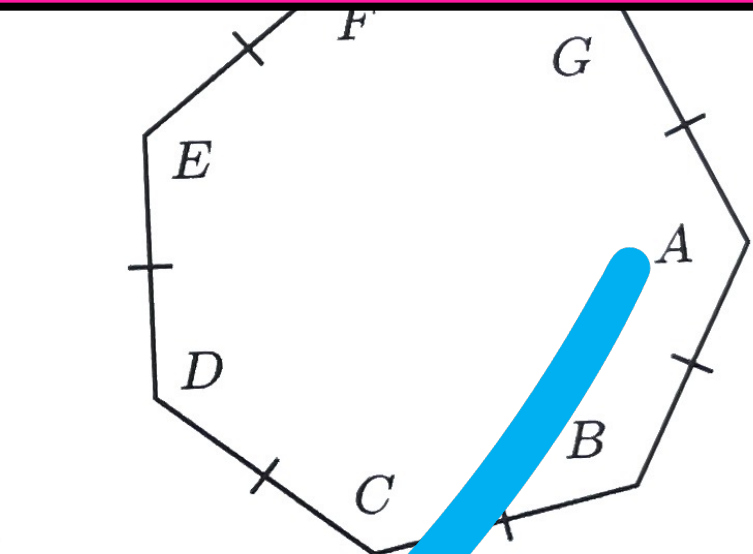
skip ahead two spaces solve a problem! skip ahead three spaces go back three spaces solve a problem! skip ahead two spaces skip ahead three spaces

## Interior Angle Sums

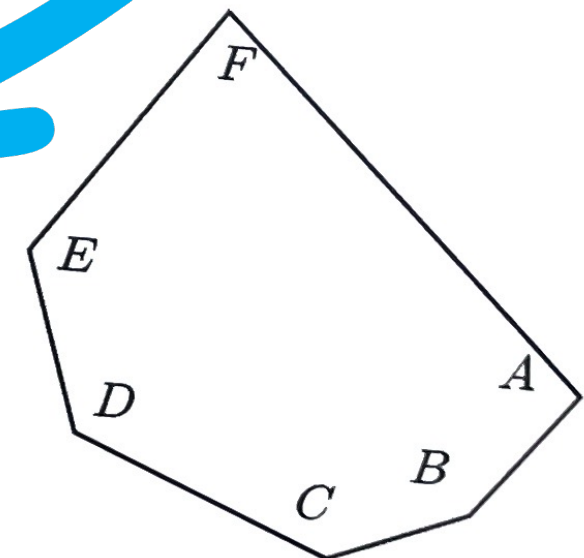
Name:

### Interior Angle Sums Recording Sheet

1 1,260°	2 540°	3 1,260°	4 1,260°
5 900°	6 720°	7 900°	8 1,260°
9 1,080°	10 720°	11 28.57°	12 135°



Find the sum of the interior angles of the polygon below.





# 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 to teach interior angle sums in a game-like format. At the top, a blue banner contains the text "Students won't even realize they are learning!". Below this, a board game titled "Interior Angle Sums" is shown. The game board includes a starting point and various instructions such as "solve a problem!", "go ahead three spaces", and "skip ahead two spaces". A green pin is placed on the board. To the left of the board is a small potted plant, and to the right is a blue container with dice. Below the board game is a pink "Interior Angle Sums Recording Sheet" with a grid for recording answers. A purple pen is resting on the sheet. To the right of the recording sheet are two geometry worksheets. The first worksheet, labeled "5", asks the student to find the sum of the interior angles of a polygon with vertices A, B, C, D, E, F, and G. The second worksheet, labeled "6", asks the student to find the sum of the interior angles of a polygon with vertices A, B, C, D, E, and F.

**Interior Angle Sums Recording Sheet**

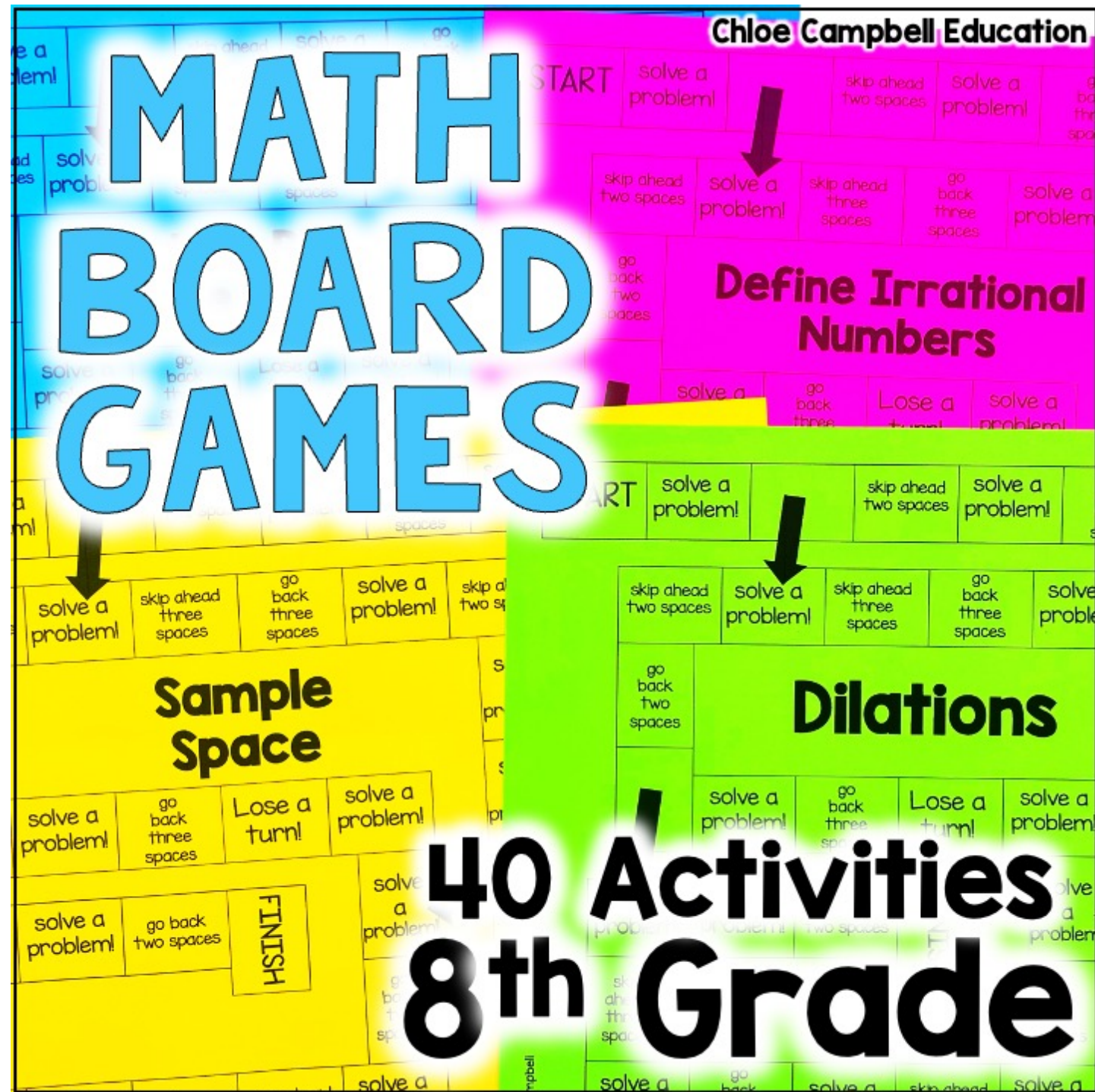
1	2	3	4
1,260°	540°	1,260°	1,260°
5	6	7	8
900°	720°	900°	1,260°
9	10	11	12
1,080°	720°	28.57°	135°



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and student  
achievement increase!

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