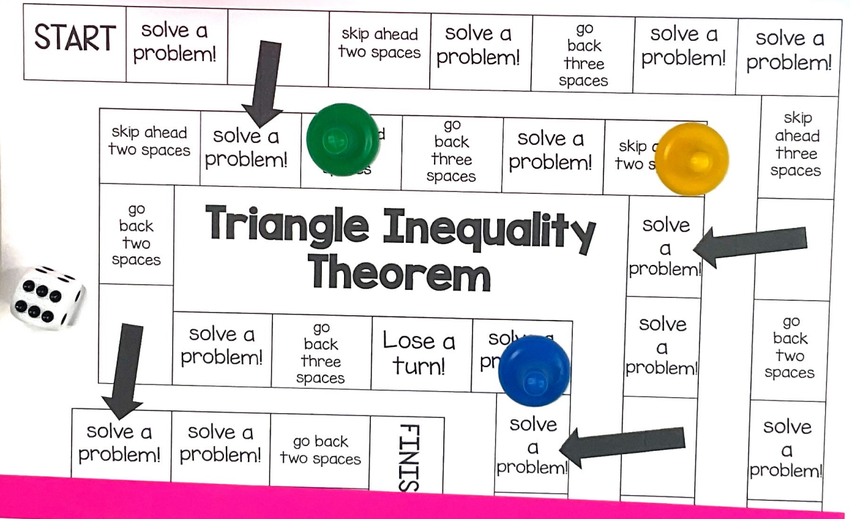
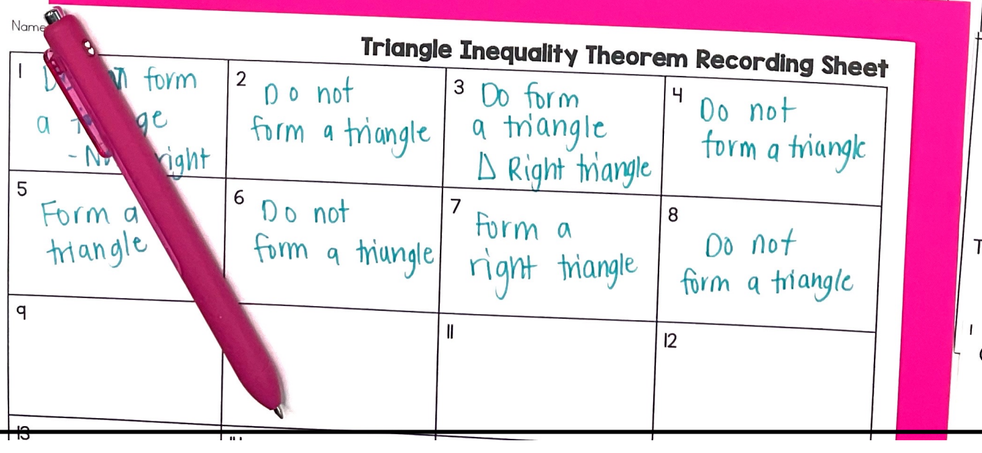
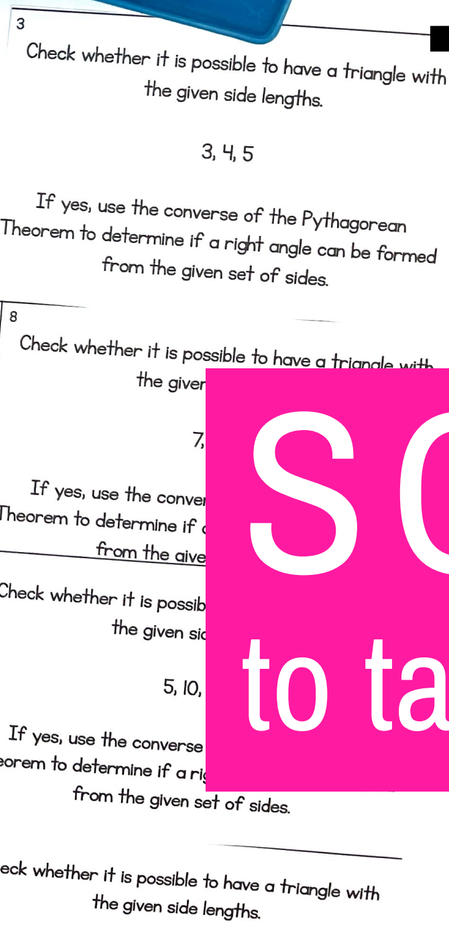
Triangle Inequality Theorem







SCROLL
to take a look inside!

Math Skills Included:

Check whether it is possible to have a triangle with the given side lengths.

6, 8, 10

If yes, use the converse of the Pythagorean Theorem to determine if a right angle can be formed from the given set of sides.

2

Check whether it is possible to have a triangle with the given side lengths.

3

Check whether it is possible to have a triangle with the given side lengths.

3, 4, 5

If yes, use the converse of the Pythagorean Theorem to determine if a right angle can be formed from the given set of sides.

8

Check whether it is possible to have a triangle with the given side lengths.

7, 9, 17

If yes, use the converse of the Pythagorean Theorem to determine if a right angle can be formed from the given set of sides.

4

Check whether it is possible to have a triangle with the given side lengths.

5, 10, 17

If yes, use the converse of the Pythagorean Theorem to determine if a right angle can be formed from the given set of sides.

Check whether it is possible to have a triangle with the given side lengths.

7, 9, 13

If yes, use the converse of the Pythagorean Theorem to determine if a right angle can be formed from the given set of sides.

7

Check whether it is possible to have a triangle with the given side lengths.

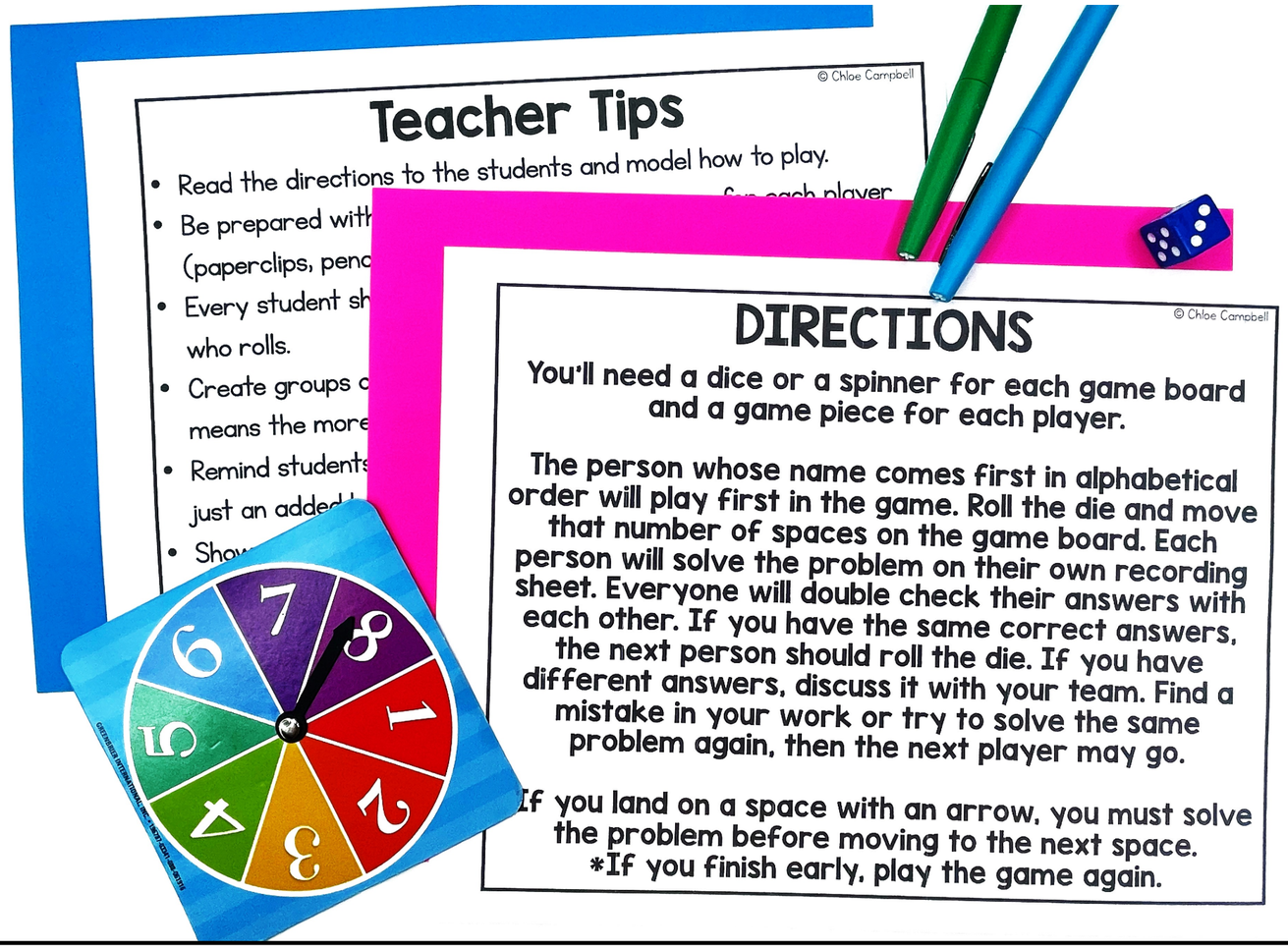
9, 12, 15

If yes, use the converse of the Pythagorean Theorem to determine if a right angle can be formed from the given set of sides.

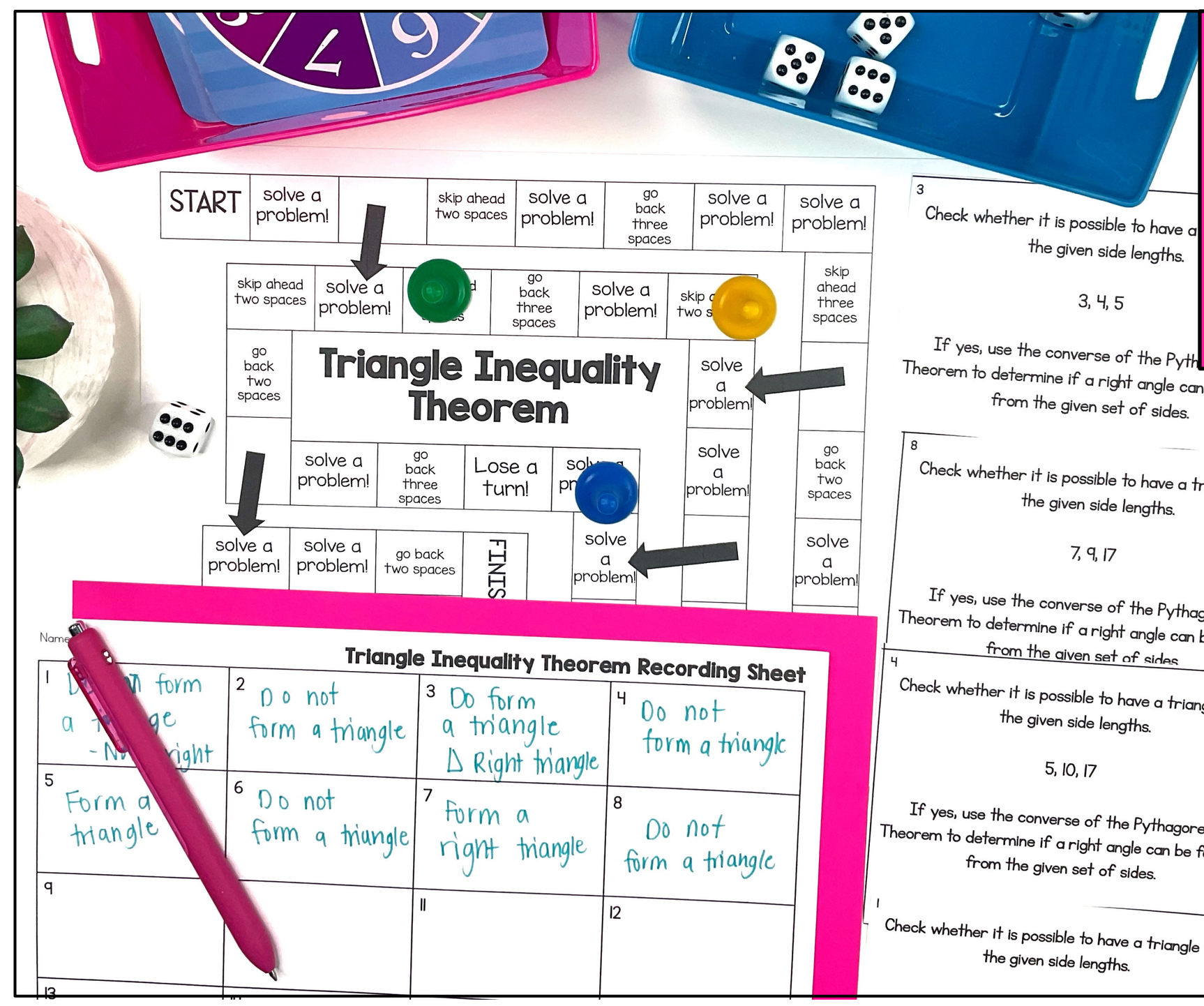
Students are asked if the side lengths form a triangle. If so, is it a right triangle?

You'll Receive

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



Student Recording Sheet



Name

Triangle Inequality Theorem Recording Sheet

1 D[illegible] form a t[illegible]ge - N[illegible]right	2 Do not form a triangle	3 Do form a triangle ∆ Right triangle	4 Do not form a triangle
5 Form a triangle	6 Do not form a triangle	7 Form a right triangle	8 Do not form a triangle
9		11	12
13			

3
Check whether it is possible to have a
the given side lengths.

3, 4, 5

If yes, use the converse of the Pyth
Theorem to determine if a right angle can be formed
from the given set of sides.

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Check whether it is possible to have a triangle with
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5, 10, 17

If yes, use the converse of the Pythagorean
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from the given set of sides.

1
Check whether it is possible to have a triangle with
the given side lengths.

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.

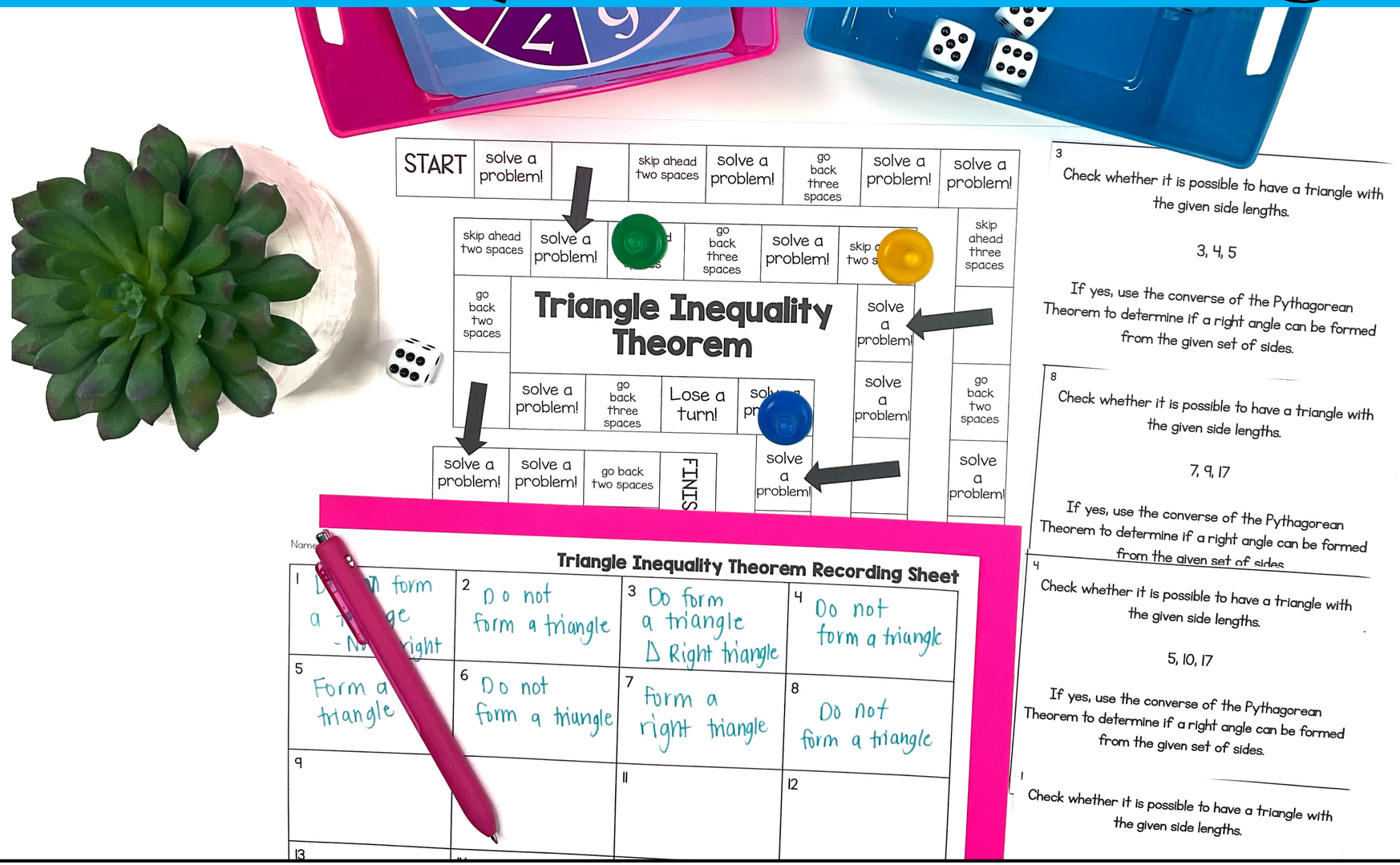
- Show students how to compare and discuss answers. Did you both get the same answer? If students get different answers, ask them to solve the problem using a different strategy or help coach each other through the problem.

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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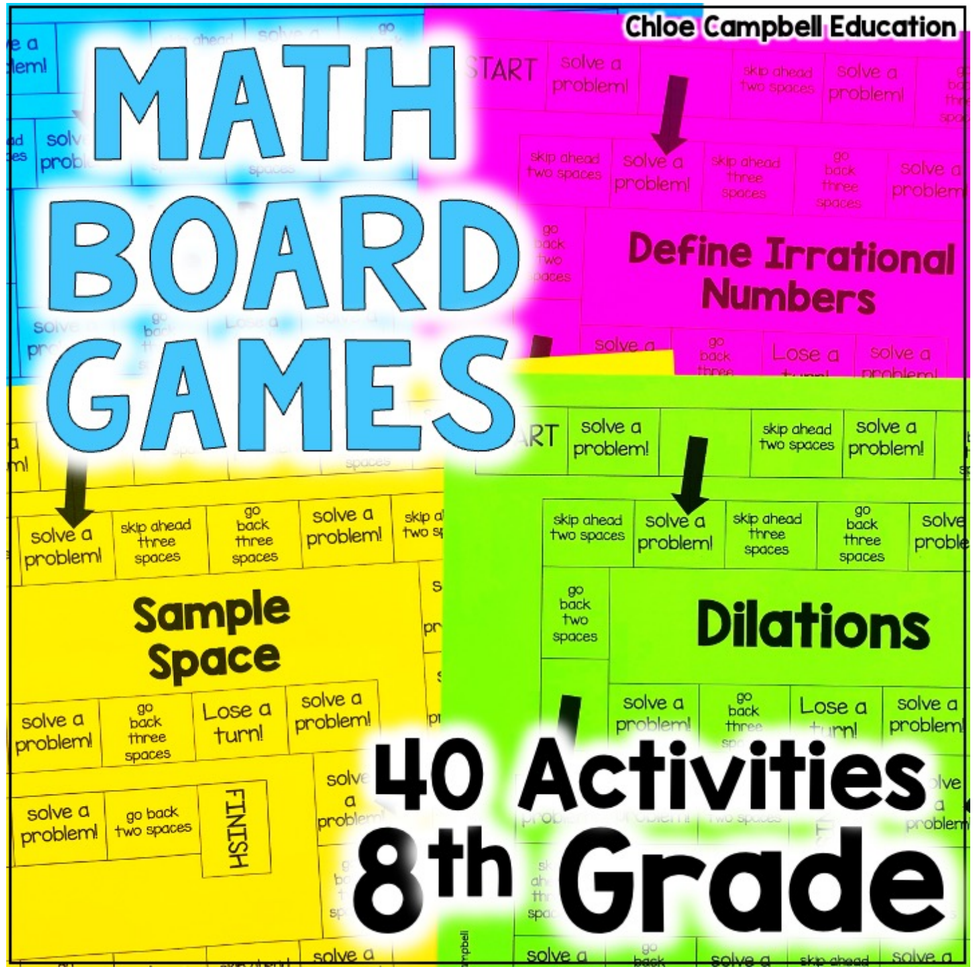

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