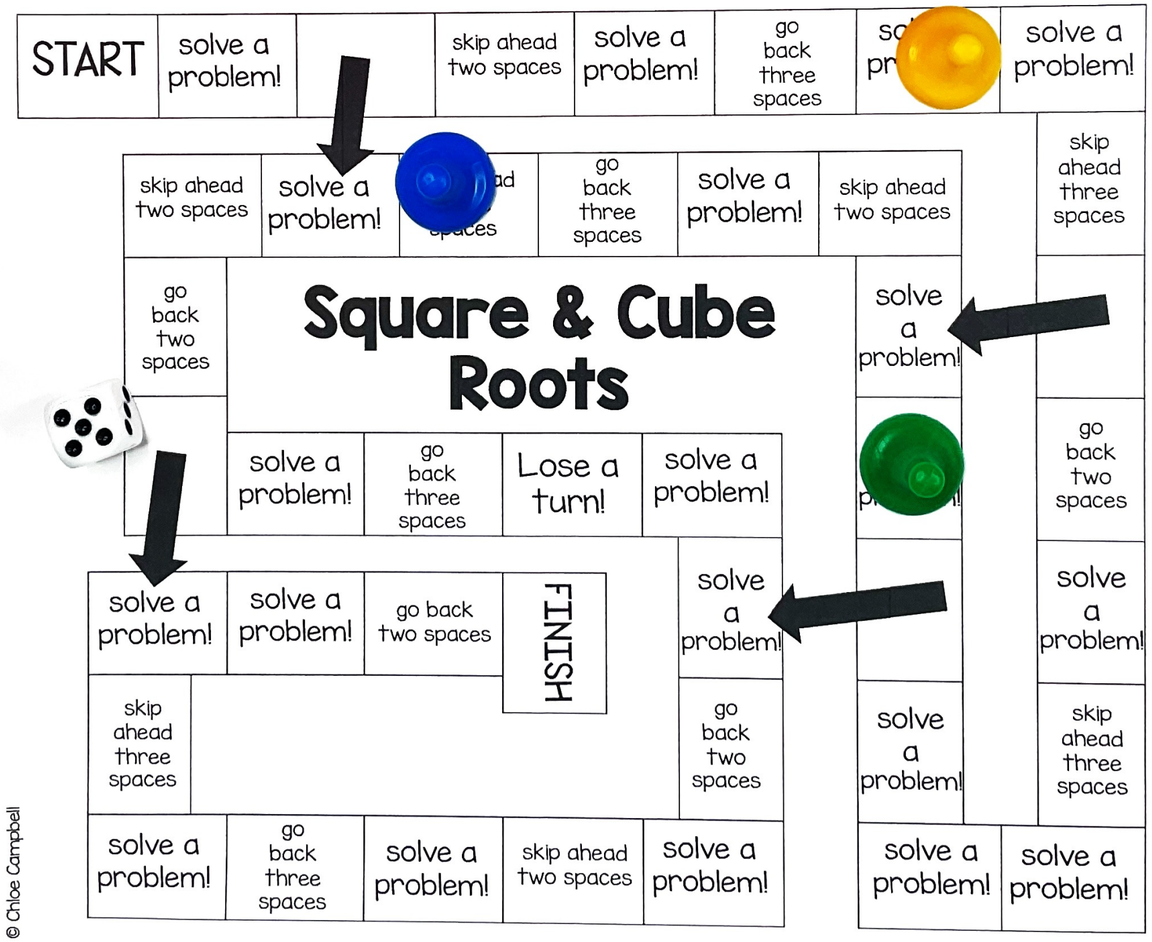
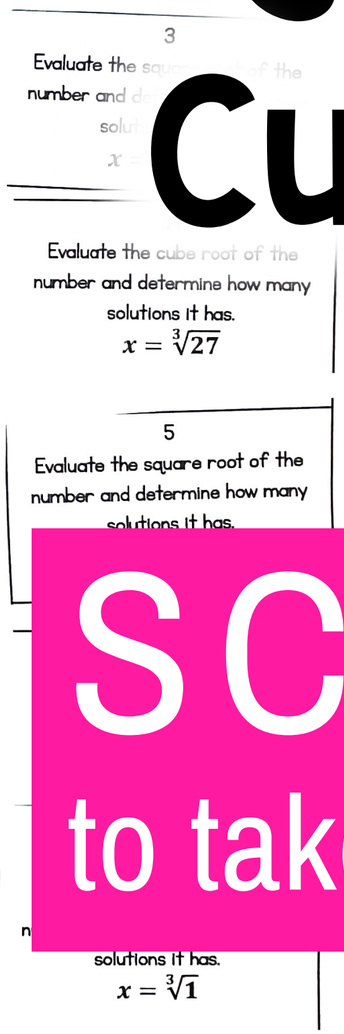
Square & Cube Roots





SCROLL
to take a look inside!

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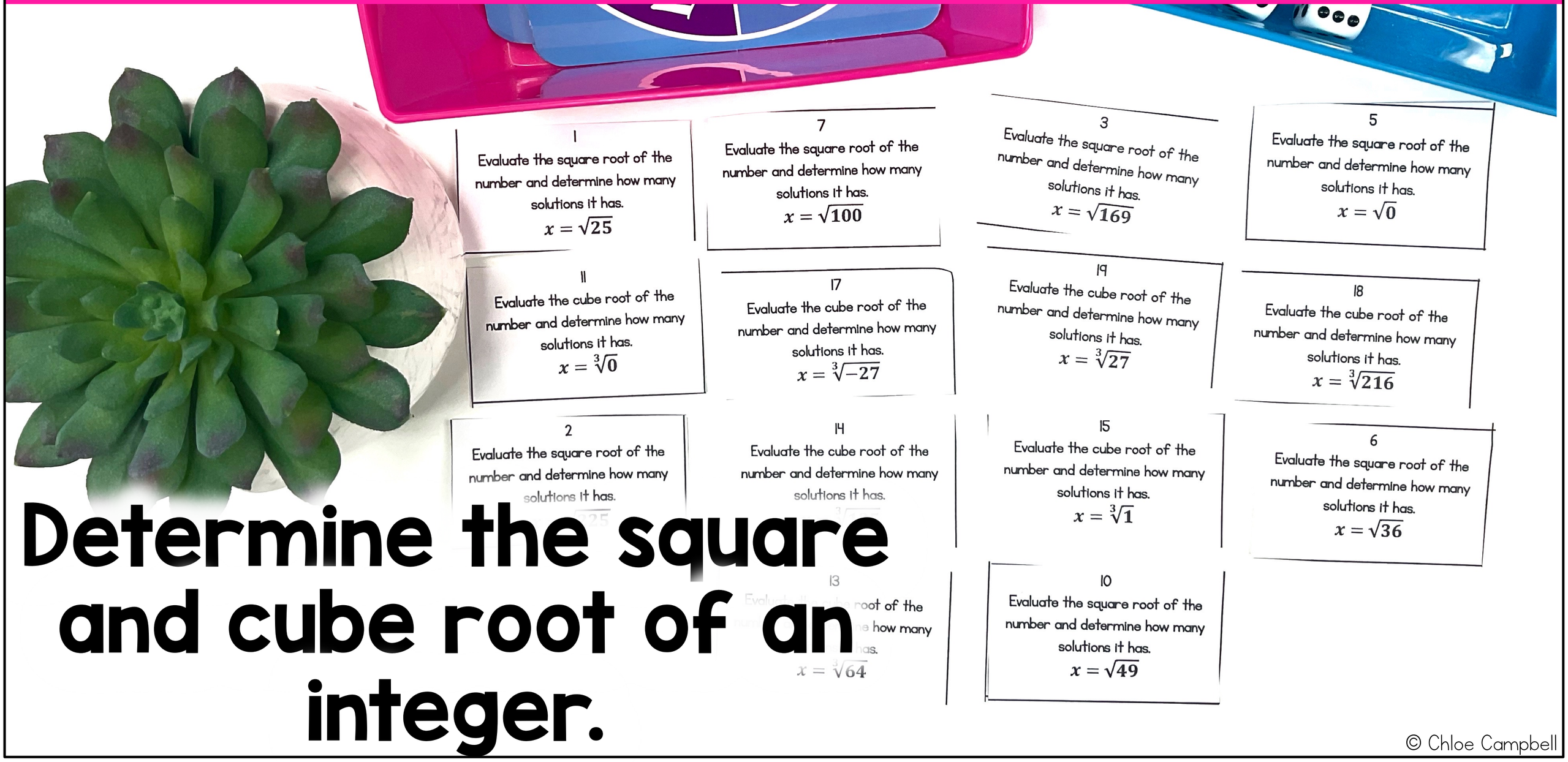
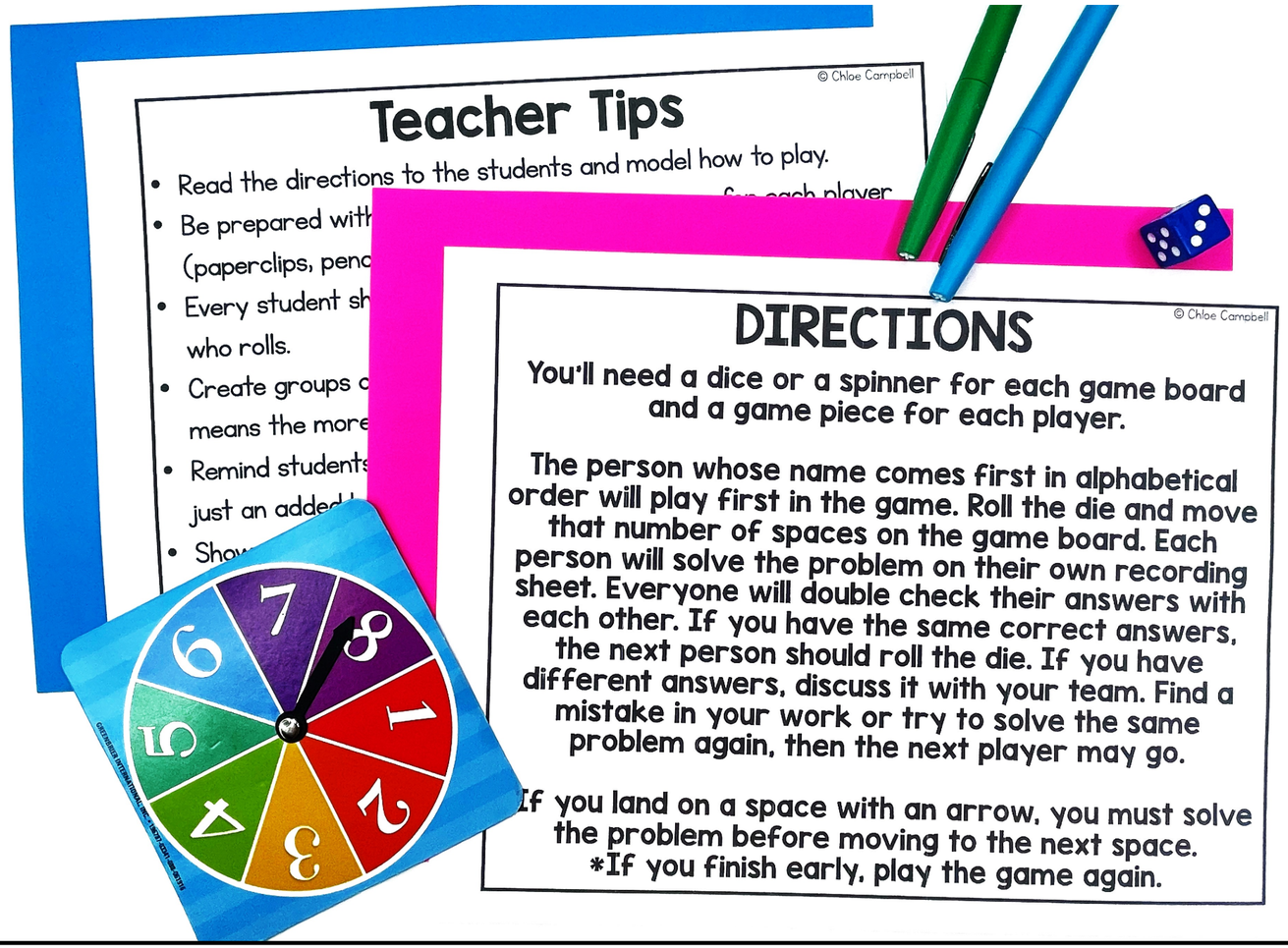
Math Skills Included:



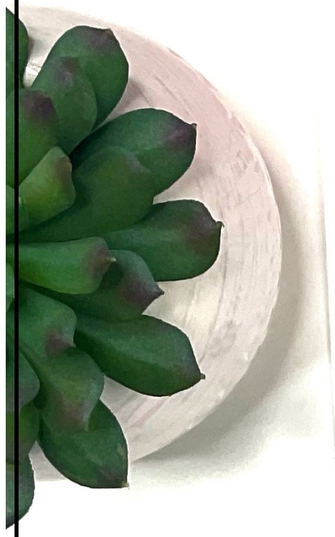
Determine the square and cube root of an integer.

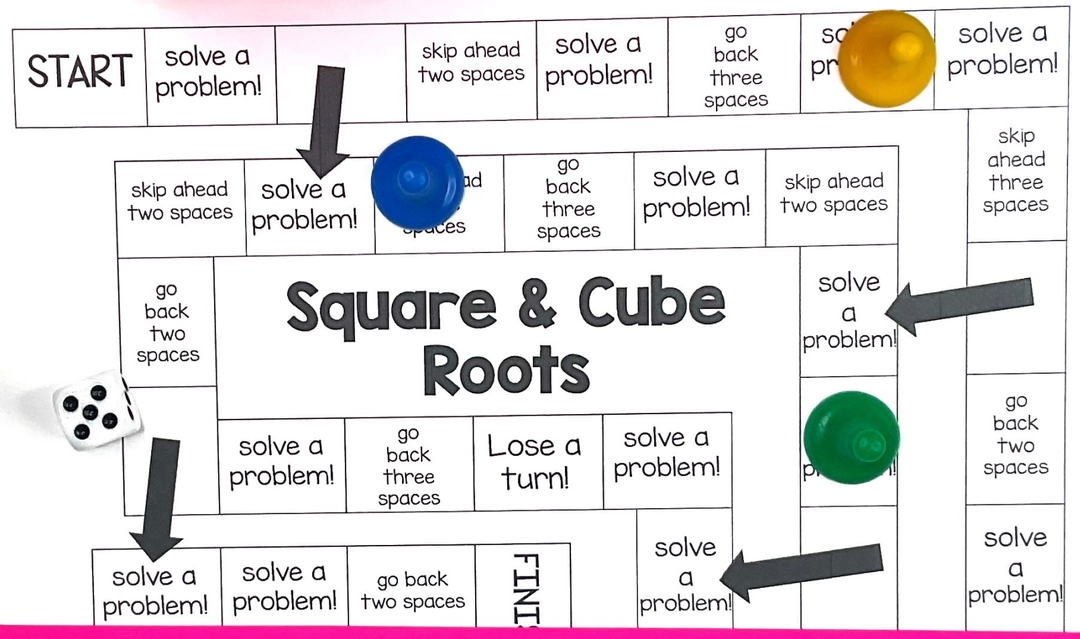
You'll Receive

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



Student Recording Sheet





Name:

Square & Cube Roots Recording Sheet

1 ±5 2 solutions	2 ±15 2 solutions	3 2 solutions	4 2 solutions
5 0 2 solutions	6 ±6 Two solutions	7 ±10 2 solutions	8 ±12 2 solutions
9 ±9 2 solutions	10 1 solutions	11 0 1 solution	12 -5 1 solution
13		15	16

3
Evaluate the square ro
number and determine
solutions it ha
$x = \sqrt{169}$

19
Evaluate the cube root
number and determine h
solutions it has.
$x = \sqrt[3]{27}$

5
Evaluate the square roo
number and determine ho
solutions it has.
$x = \sqrt{0}$

18
Evaluate the cube root of the number and determine how many solutions it has.
$x = \sqrt[3]{216}$

15
Evaluate the cube root of the number and determine how many solutions it has.
$x = \sqrt[3]{1}$

7
Evaluate the square root of the number and determine how many solutions it has.
$x = \sqrt{100}$

17
Evaluate the cube root of the number and determine how many solutions it has.
$x = \sqrt[3]{-27}$

14
Evaluate the cube root of the number and determine how many solutions it has.
$x = \sqrt[3]{125}$

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.

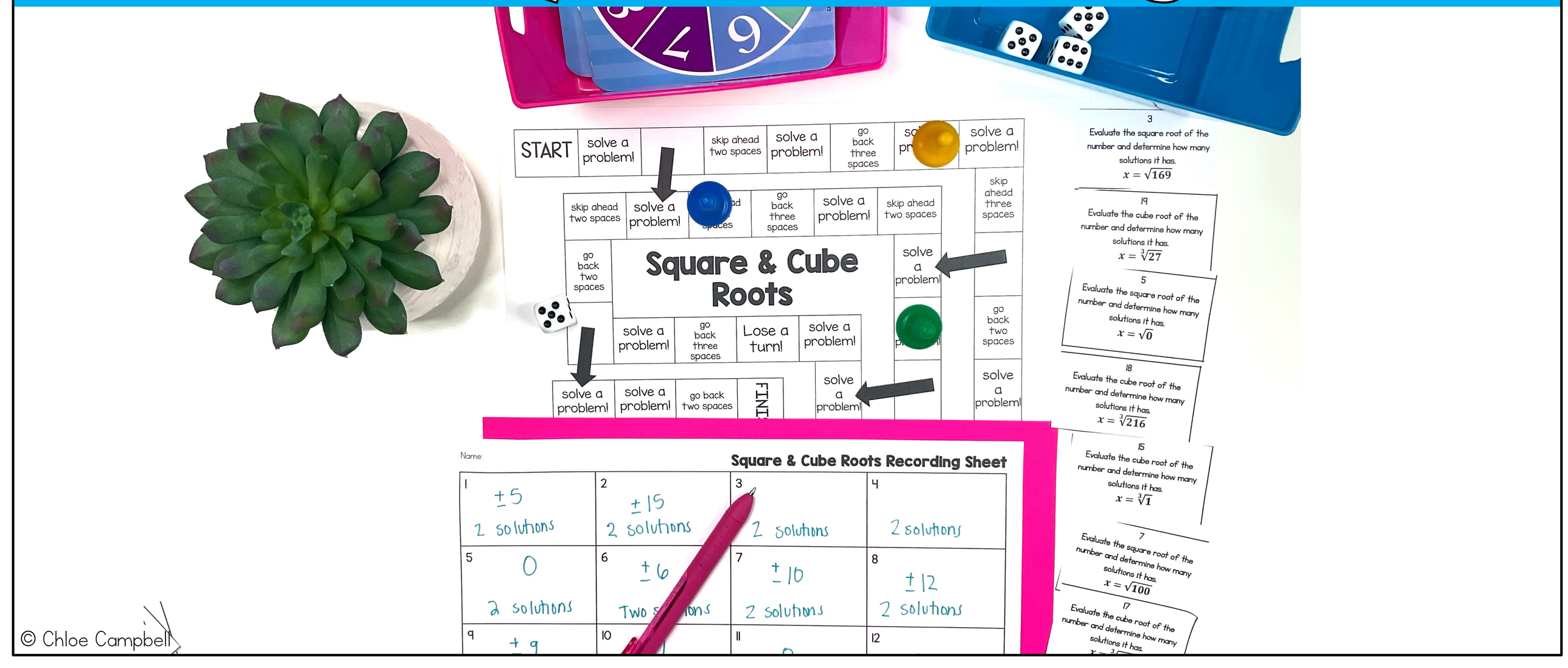
- Show students how to compare and discuss answers. Did you both get the same answer? If students get different answers, ask them to solve the problem using a different strategy or help coach each other through the problem.

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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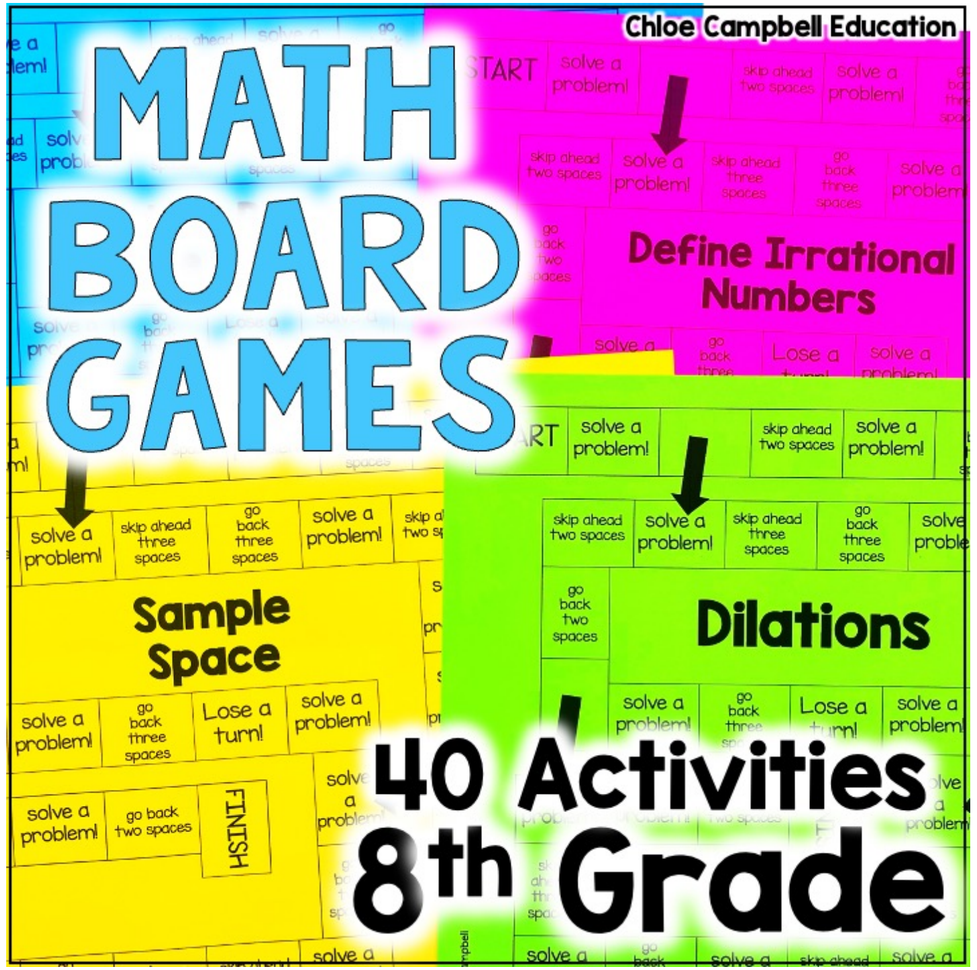

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