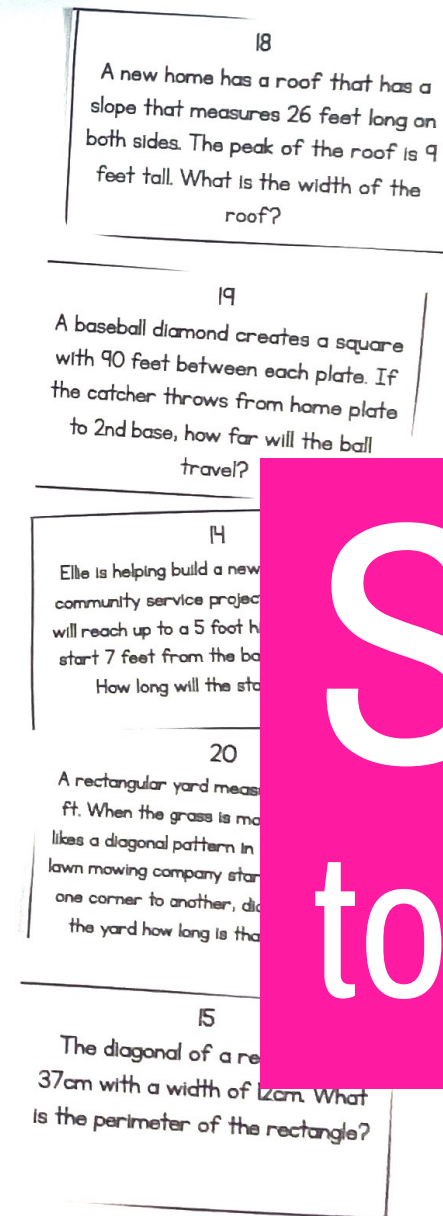
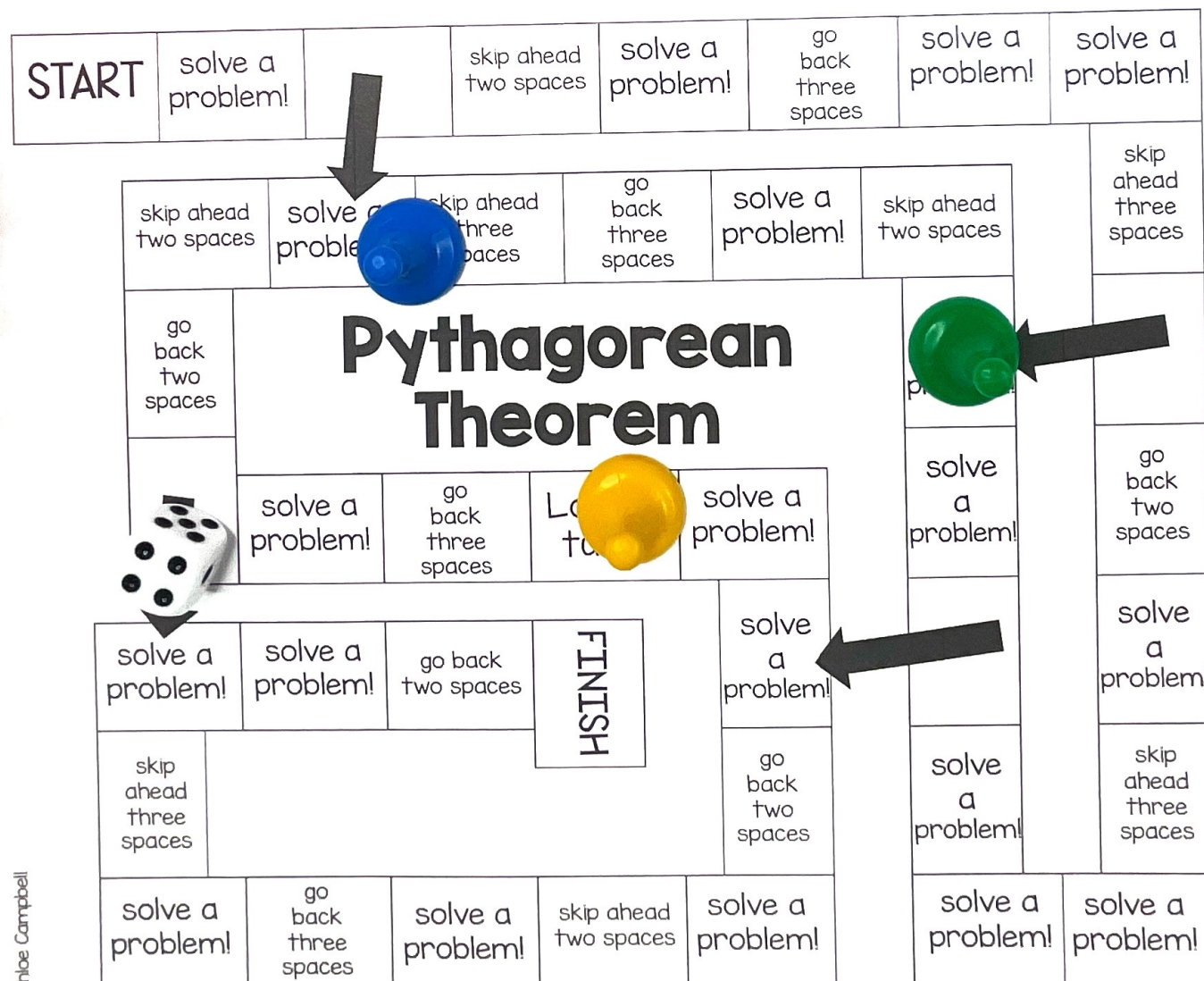


Pythagorean Theorem Word Problems

SCROLL
to take a look inside!



Math Skills Included:



3
A tennis court is 78 feet long and 27 feet wide. What is the length of the diagonal?

16
A football field is 120 yards long and 53.3 yards wide. During summer practice the players must run from one corner to another in conditioning. How far do the players run?

15
The diagonal of a rectangle is 37cm with a width of 12cm. What is the perimeter of the rectangle?

11
A right triangle with leg lengths of 10cm and 12cm. What would the measure of the hypotenuse be?

18
A new home has a roof that has a slope that measures 26 feet long on both sides. The peak of the roof is 9 feet tall. What is the width of the roof?

20
A rectangular yard measures 16 ft by 30 ft. When the grass is mowed the owner likes a diagonal pattern in the yard. If the lawn mowing company starts mowing from one corner to another, diagonally across the yard how long is that first pass?

14
Ellie is helping build a new staircase as a community service project. The staircase will reach up to a 5 foot high deck and will start 7 feet from the base of the deck. How long will the staircase be?

12
A standard four square game is played inside of a 10 foot square. What is the measure of the diagonal?

6
Television screens are measured diagonally. If a Television is sold as a 65 inch and measures 50 inches across, what is the height of the television?

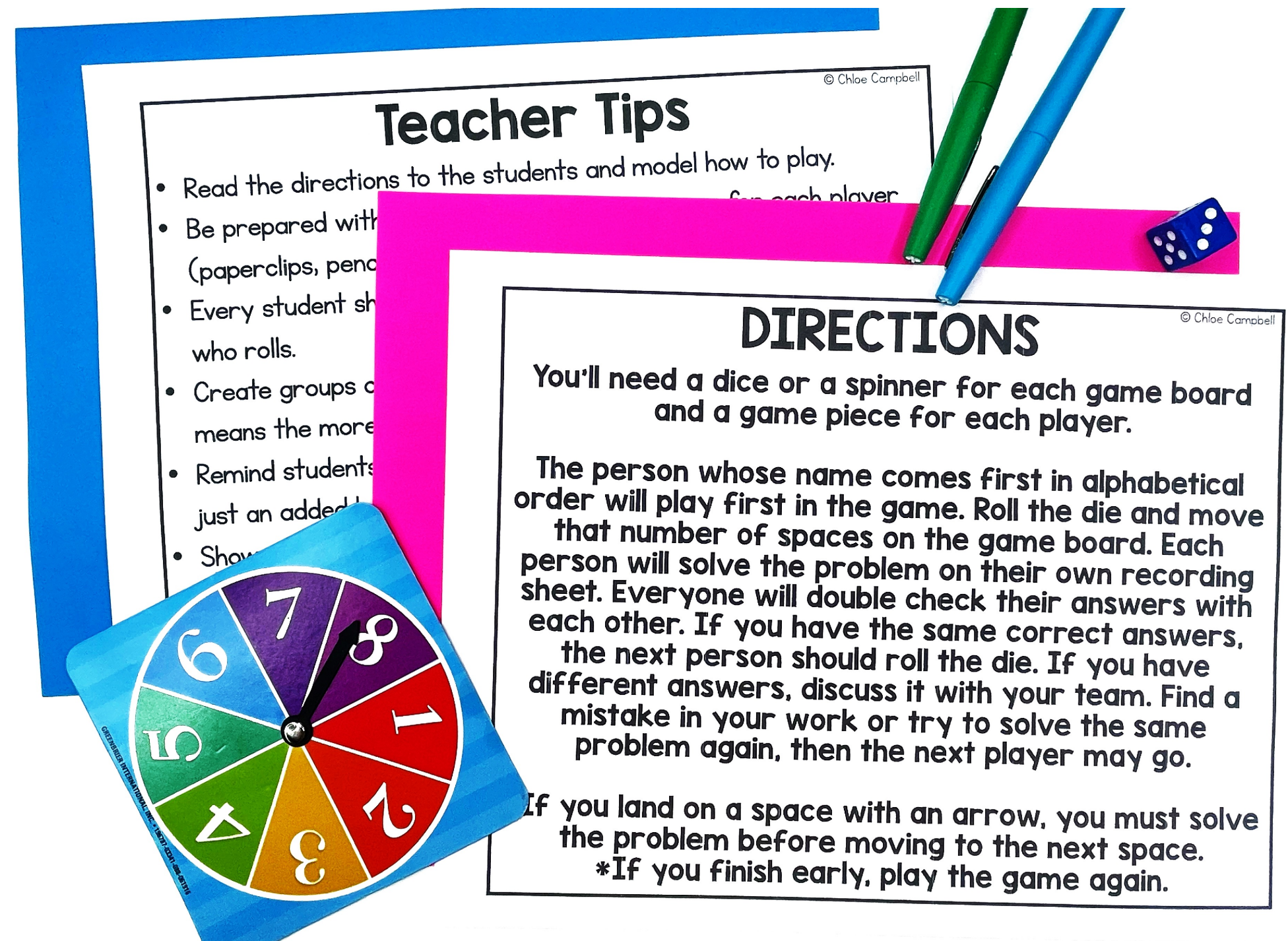
10
A right triangle has a hypotenuse length of 17 inches and one leg of 8 inches. What is the length of the other leg?

2
A sheet of printer paper is 8.5 inches wide and 11 inches tall. Find the diagonal of the piece of paper.

Apply the Pythagorean Theorem to solve real world problems

You'll Receive

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



Student Recording Sheet

Pythagorean Theorem

Pythagorean Theorem Recording Sheet

1 11.4 ft	2 13.4	3 82.5 ft	4 16.6 ft
5 22.6 ft	6 41.5 in	7 583.1 yd	8 6.9 ft
9 11.2 cm	10 18 in	11 15.6 cm	12 14.1 ft
13	14	15	16

community service project. The staircase will reach up to a 5 foot high deck and will start 7 feet from the base of the deck. How long will the staircase be?

20

A rectangular yard measures 16 ft by 30 ft. When the grass is mowed the owner likes a diagonal pattern in the yard. If the lawn mowing company starts mowing from one corner to another, diagonally across the yard how long is that first pass?

15

The diagonal of a rectangle is 37cm with a width of 12cm. What is the perimeter of the rectangle?

10

A football field is 120 yards long and 53.3 yards wide. During summer practice the players must run from one corner to another in conditioning. How far do the players run?

4

The school needs to install a new flagpole. To install a 15 foot flagpole, 4 equal length wires will be staked to the

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!

Pythagorean Theorem

Pythagorean Theorem Recording Sheet

Name: _____			
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9 11.2 cm	10 18 in	11 15.6 cm	12 14.1 ft
13	14	15	16

Word Problems:

18
A new home has a roof that has a slope that measures 26 feet long on both sides. The peak of the roof is 9 feet tall. What is the width of the roof?

19
A baseball diamond creates a square with 90 feet between each plate. If the catcher throws from home plate to 2nd base, how far will the ball travel?

14
Elle is helping build a new staircase as a community service project. The staircase will reach up to a 5 foot high deck and will start 7 feet from the base of the deck. How long will the staircase be?

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A rectangular yard measures 16 ft by 30 ft. When the grass is mowed the owner likes a diagonal pattern in the yard. If the lawn mowing company starts mowing from one corner to another, diagonally across the yard how long is that first pass?

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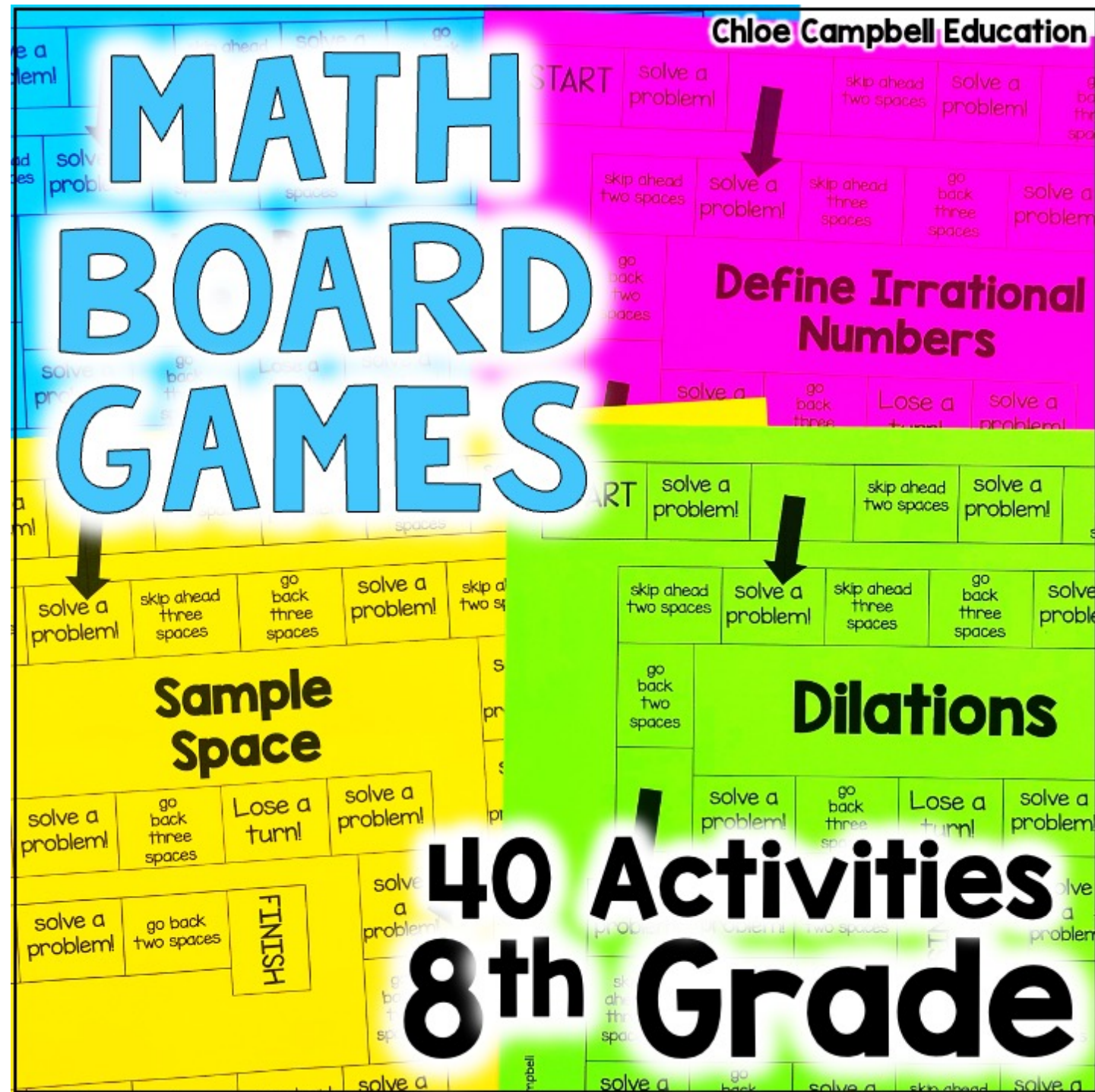
16
A football field is 20 yards long and 53.3 yards wide. During summer practice the players must run from one corner to another in conditioning. How far do the players run?

4
The school needs to install a new flagpole. To install a 15 foot flagpole, 4 equal length...

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and student
achievement increase!

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the
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