

# 6th Grade Math Board Games

**Numbers on a Number Line**

START

solve a problem!

skip ahead two 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

**Writing Ratios**

START

solve a problem!

skip ahead two 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

go back two spaces

**Statistical Questions**

solve a problem!

solve a

solve a problem!

solve a problem!

go back two spaces

solve a problem!

solve a problem!

go back two spaces

solve a problem!

skip ahead three spaces

**50 Games!**

# This resource includes:

- Teacher Tips
- Student Directions
- 50 Printable Math Board Games
- Recording Sheets to Hold  
Students Accountable
- Answer Keys



# Students won't even realize they are learning!

14 - Bryan is \$10,000 in debt and Yang is \$12,000 in debt. Who has the most debt?

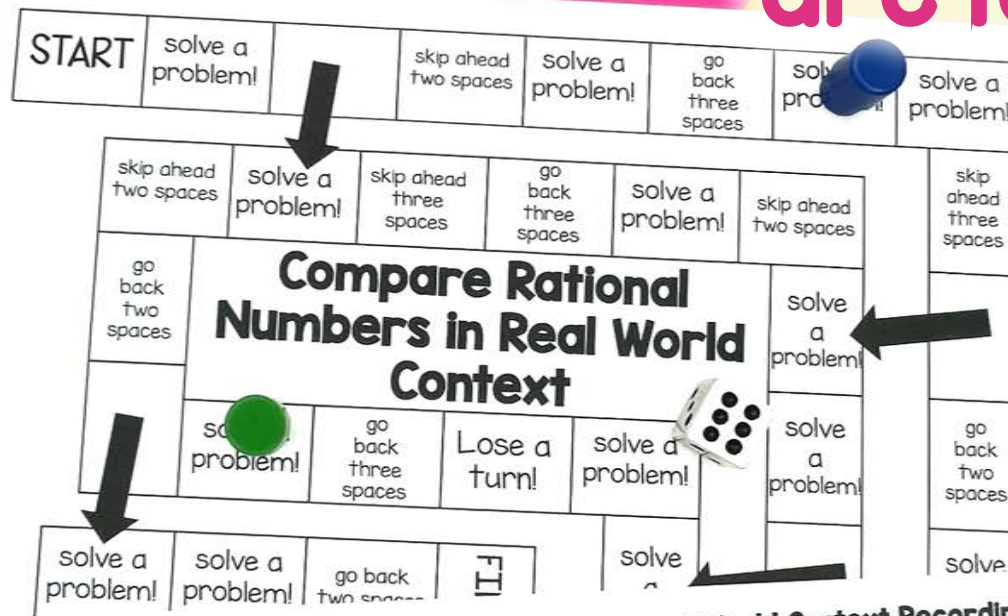
10 - The average temperature at the North Pole is  $-32^{\circ}\text{F}$  and the average temperature at the South Pole is  $-79^{\circ}\text{F}$ . Write a comparison statement to show the relationship between the numbers.

7 - Grandpa checked his in pool levels. The numbers below are the number of inches above or below the normal water level. Write a comparison statement to show the relationship between the numbers.

$\frac{1}{2}, \frac{1}{4}, -\frac{1}{2}, \frac{1}{8}, -\frac{1}{4}, \frac{3}{8}$

11 - Write a statement to show the relationship between the numbers: You have two houses. On the first house, you make a profit of \$50 per month. On the second house, you have a loss of \$50 each month.

15 - Sam is 140 feet above sea level and Sarah is 140 feet below sea level. Write a statement to show the relationship between those two numbers.



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

**Compare Rational Numbers in a Real World Context Recording Sheet**

1	2	3	4
$-37 - 7$	$-30$	$\$ -9,000$	$-332$
5	6	7	8
	$5.50 > 4.08 > -1.5 > -3 > -3.95$		$-0.21 < -0.14 < 0.09 < -0.03 < 0.04 < 0.1 < 0.2$
9	10	11	12

# Teachers Like You Say:

★★★★★ Extremely satisfied

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!

★★★★★ Extremely satisfied

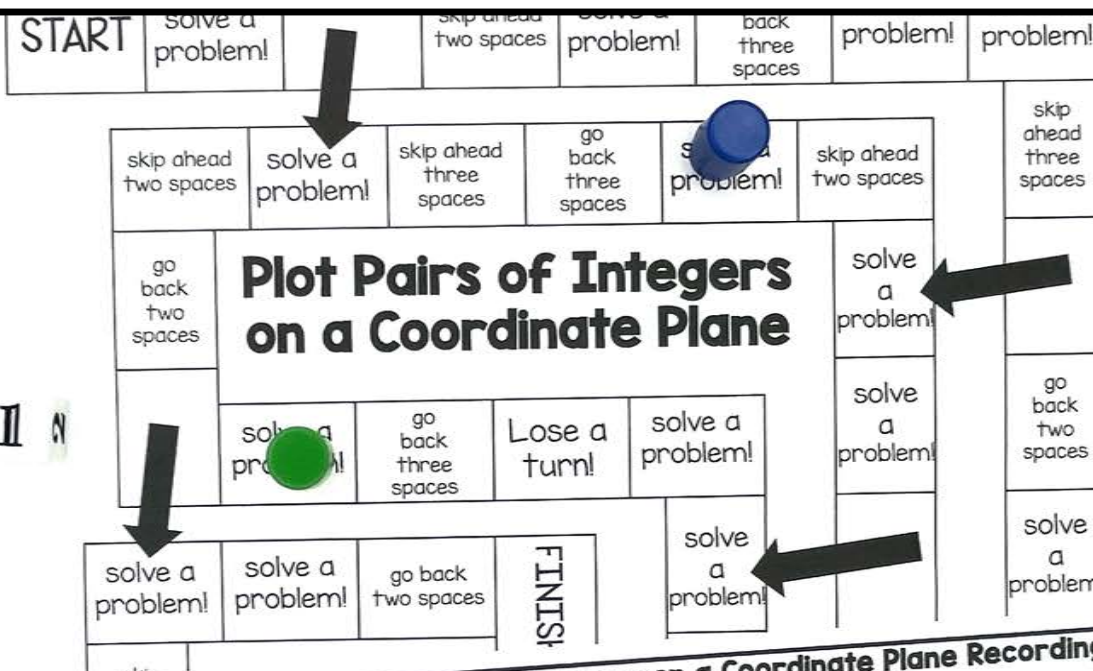
My students love games especially when they can compete with each other. Best resource with so many different options.

★★★★★ Extremely satisfied

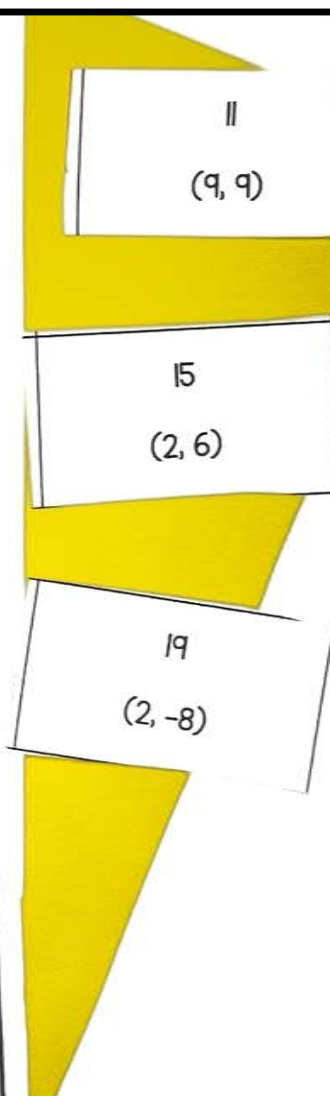
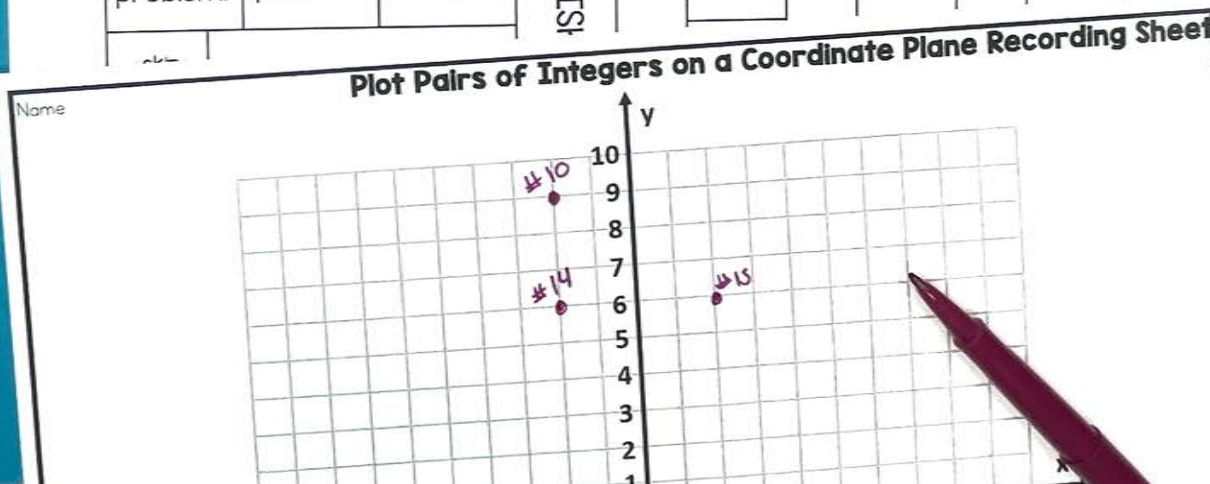
My students love playing games and a simple, easy prep game like this is a great addition to math centers, early finisher activities, and review days.

# What's the best way to use this board game?

- Math Centers or Stations
- Whole Group Practice
- Morning Work
- Early Finisher Activity
- Substitutes
- Send Home to Engage Student Families



Hold students accountable  
with a recording sheet



# Topics Included

1. Algebraic Expressions and Written Descriptions
2. Evaluate Expressions
3. Order of Operations
4. Write Equivalent Expressions
5. Are These Expressions Equivalent?
6. Write Expressions When Solving Word Problems
7. Evaluate Expressions
8. Write Inequalities
9. Represent Inequalities on a Number Line
10. What Value Will Make the Equation True?
11. Writing and Solving Equations  
( $x+p=q$  and  $px=q$ )
12. Independent and Dependent Variables
13. Writing Ratios
14. Equivalent Ratios
15. Ratios in Tables and Graphs
16. Unit Rates
17. Ratios with Tape Diagrams and Double Number Lines
18. Percentages
19. Converting Within Measurement Systems
20. Statistical Questions
21. Mean, Median, and Range
22. Box Plots
23. Dot Plots
24. Histograms
25. Real World Data Sets



# Topics Included

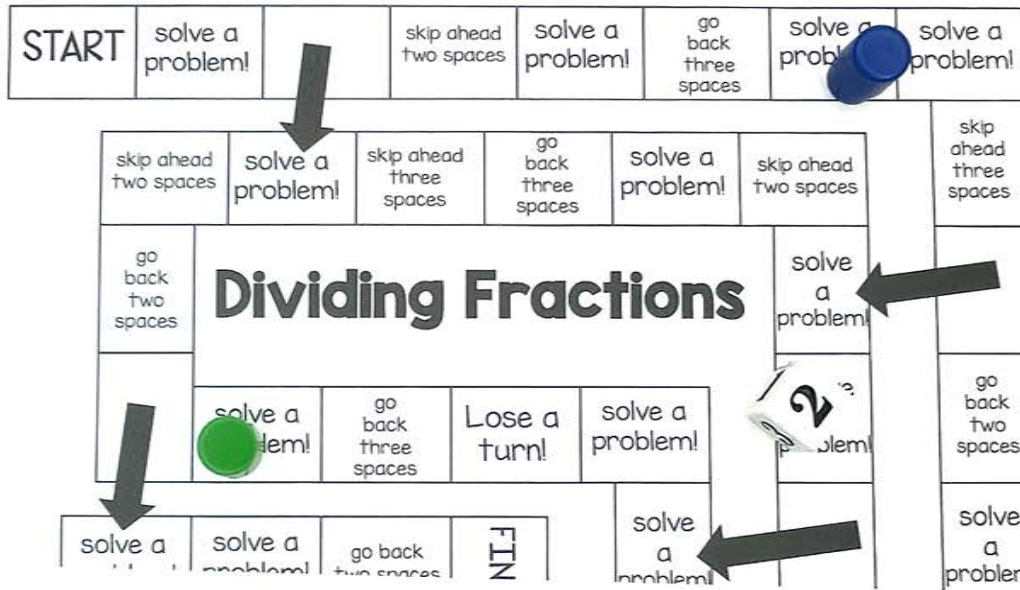
- |   |  |
|---|--|
| 26. Divide Fractions  | 38. Graph Rational Numbers on a Number Line          |
| 27. Divide Whole Numbers  | 39. Compare Integers                                 |
| 28. Add and Subtract Decimals   | 40. Understand Absolute Value                        |
| 29. Multiply Decimals   | 41. Compare Rational Numbers in a Real World Context |
| 30. Divide Decimals   | 42. Solve Problems on a Coordinate Plane             |
| 31. Greatest Common Factor  | 43. Area of Quadrilaterals                           |
| 32. Least Common Multiple   | 44. Area of Triangles                                |
| 33. Use the Distributive Property to Express the Sum of Two Numbers                 | 45. Area of Polygons                                 |
| 34. Positive and Negative Numbers   | 46. Volume with Fractional Lengths                   |
| 35. Integers & Opposites on a Number Line   | 47. Volume Word Problems with Fractional Lengths     |
| 36. Identify the Quadrant Where the Ordered Pair is Located in the Coordinate Plane | 48. Polygons in the Coordinate Plane                 |
| 37. Plot Pairs of Integers on a Coordinate Plane                                    | 49. Nets of 3D Figures                               |
|   | 50. Nets and Surface Area                            |



14 - You have 3 share with four friends. What portion of the salad will each person receive?

$$\frac{6}{5} \div \frac{5}{5}$$

$$\frac{5}{8} \div \frac{3}{8}$$



10 - Six people equally share  $\frac{1}{2}$  pound of cheese dip. How much does each person receive?

$$7 \quad \frac{3}{8} \div \frac{1}{5}$$

11 - James wants to divide a  $\frac{3}{4}$  pound box of cereal into small bags. Each bag will hold  $\frac{1}{12}$  pound of cereal. How many bags of cereal can James fill?

15 - A honeybee can make  $\frac{1}{12}$  teaspoon of honey in its lifetime. How many honeybees are needed to make  $\frac{1}{2}$  teaspoon of honey?

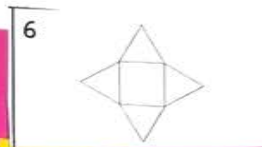
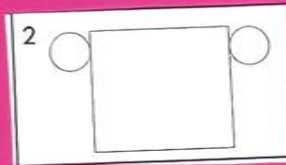
Name: \_\_\_\_\_

### Dividing Fractions Recording Sheet

1	3	2	$1 \frac{2}{3}$	3		4	$1 \frac{1}{3}$
5	$\frac{5}{14}$	6	$\frac{15}{16}$	7	$1 \frac{7}{8}$	8	
9		10		11		12	
13		14		15		16	

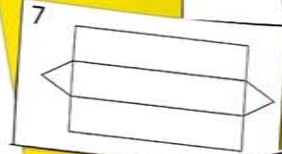
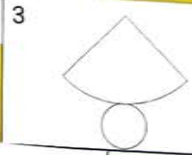
# Tips for Playing Math Board Games:

- 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.



10 - Draw a net of a cone.

14 - Draw a net of a square pyramid.



11 - Draw a net of a rectangular prism.

15 - Draw a net of a cylinder.

## Nets of 3D Figures

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

go back two spaces solve a problem! solve a problem! go back three spaces Lose a turn! solve a problem! solve a problem! solve a problem! solve a problem! go back two spaces solve a problem!

**FINISH**

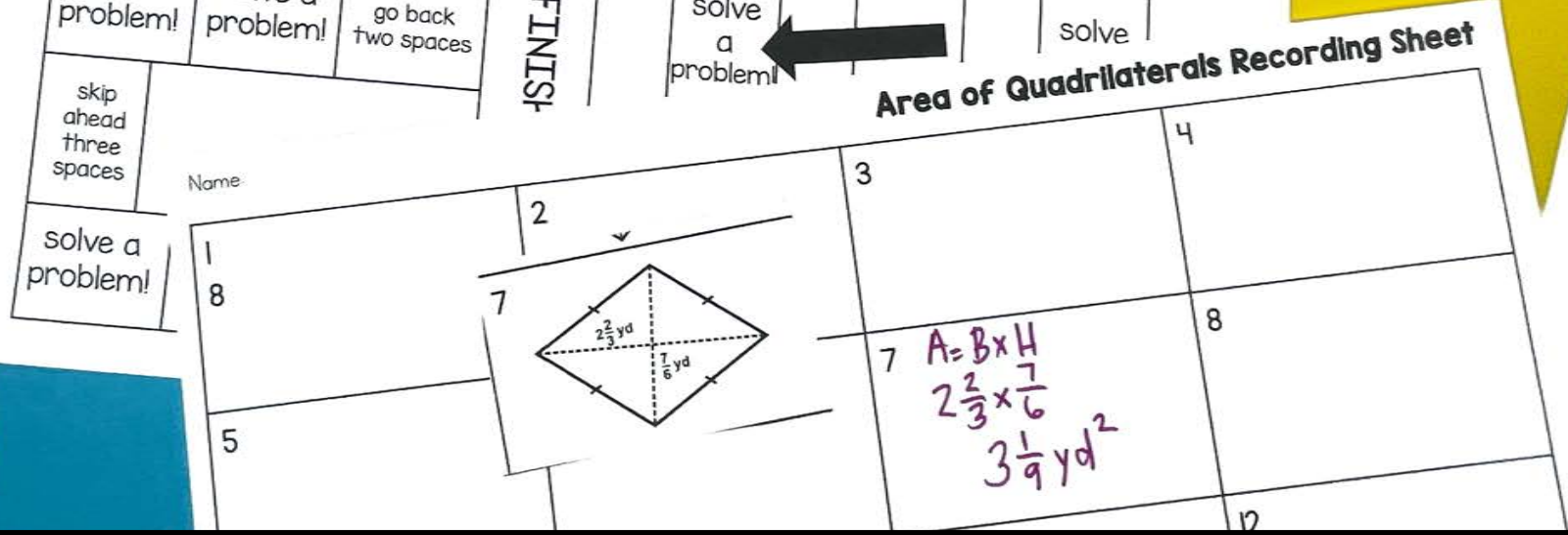
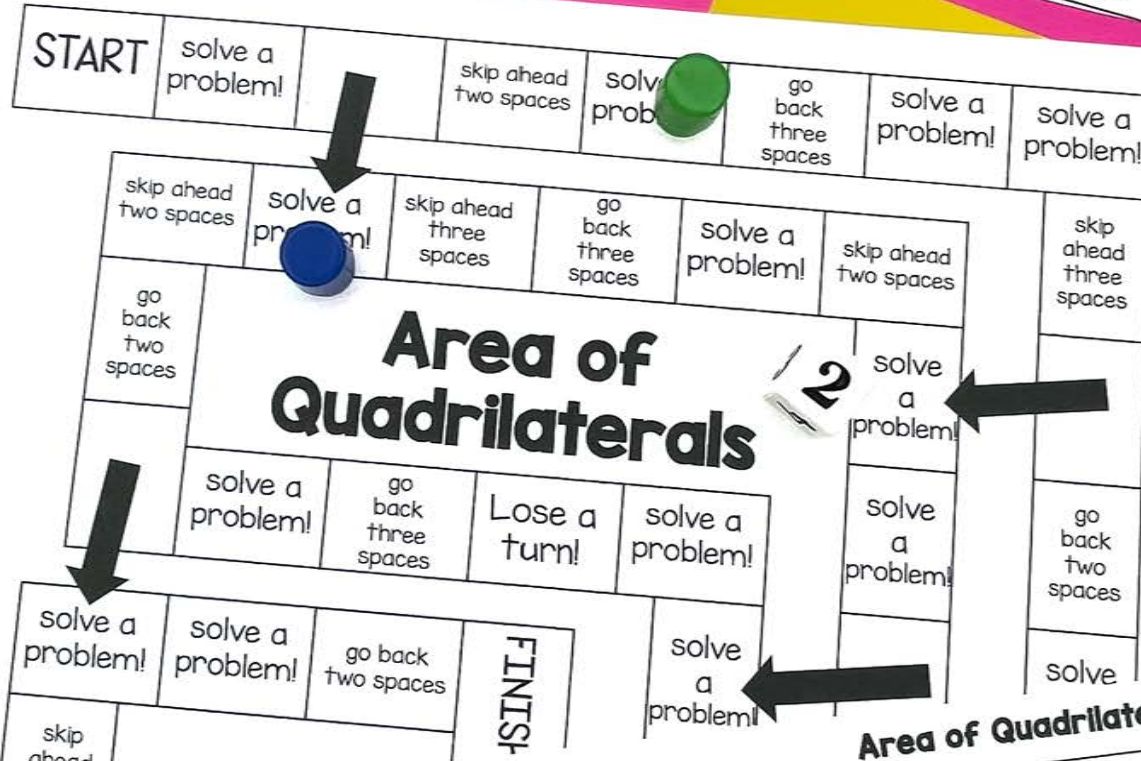
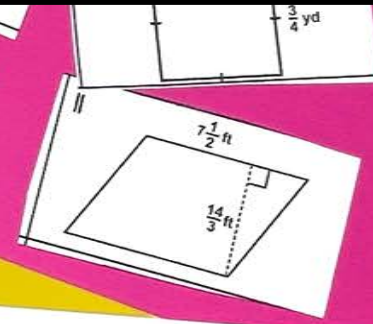
Nets of 3D Figures Recording Sheet

1	2	3	4
Cube		Cone	Rectangular Prism
5	6	7	8
	Square pyramid		
9	10	11	12

# Tips for Playing Math Board Games:

- Remind students that the focus is not playing the game but that's just an added bonus! The focus should be on practicing 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 leads to an increase of 34.755% in student performance (ScienceDirect, 2020).

# Bonuses:

- Save over \$70 by purchasing the games in a bundle!
- Gain access to an “All in One” easy download file. It’s a PDF that has ALL 50 games to make it easier to print!

question?  
How old is the oldest house  
on the street?

music?

7 - Is this a statistical  
question?  
What is the product of 5  
and 7?

11 - Is this a statistical  
question?  
What is your favorite type  
of music?

15 - Is this a statistical  
question?  
How tall is your brother?

19 - Write a statistical  
question about a topic of  
your choice.

18 - Write a non-statistical  
question about a topic of  
your choice.

**Statistical Questions**

START solve a problem! skip ahead two 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

go back two spaces

solve a problem! go back three spaces Lose a turn! solve a problem! solve a problem!

solve a problem! solve a problem! go back two spaces FINISH

skip ahead three spaces

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

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

solve a problem! solve a problem! solve a problem! skip ahead three spaces solve a problem! solve a problem!

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# Add to Cart!

Purchase now to see  
student engagement and  
student achievement  
increase!