Independent and Dependent Variables

START

solve a problem!

skip ahead two spaces

solve a problem!

go back three spaces

solve a problem!

solve a problem!

skip ahead three spaces

go back three spaces

solve a problem!

skip ahead two spaces

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solve a problem!

skip ahead three spaces

go back three spaces

solve a problem!

skip ahead two spaces

solve a problem!

go back two spaces

solve a problem!

go back two spaces

solve a problem!

go back three spaces

Lose a turn!

solve a problem!

solve a problem!

solve a problem!

go back two spaces

FINISH

solve a problem!

go back two spaces

solve a problem!

skip ahead three spaces

skip ahead three spaces

solve a problem!

solve a problem!

solve a problem!

solve a problem!

go back three spaces

solve a problem!

skip ahead two spaces

solve a problem!

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Task cards:

15 - Members pay for a subscription to a website to download music. The subscription costs $20 and then they pay $0.50 for every song they download. How much money will you spend if you download 10 songs?

subscription costs $20 and then they pay $0.50 for every song they download. Write an equation to show the total money spent (m) based on the number of songs downloaded (s).

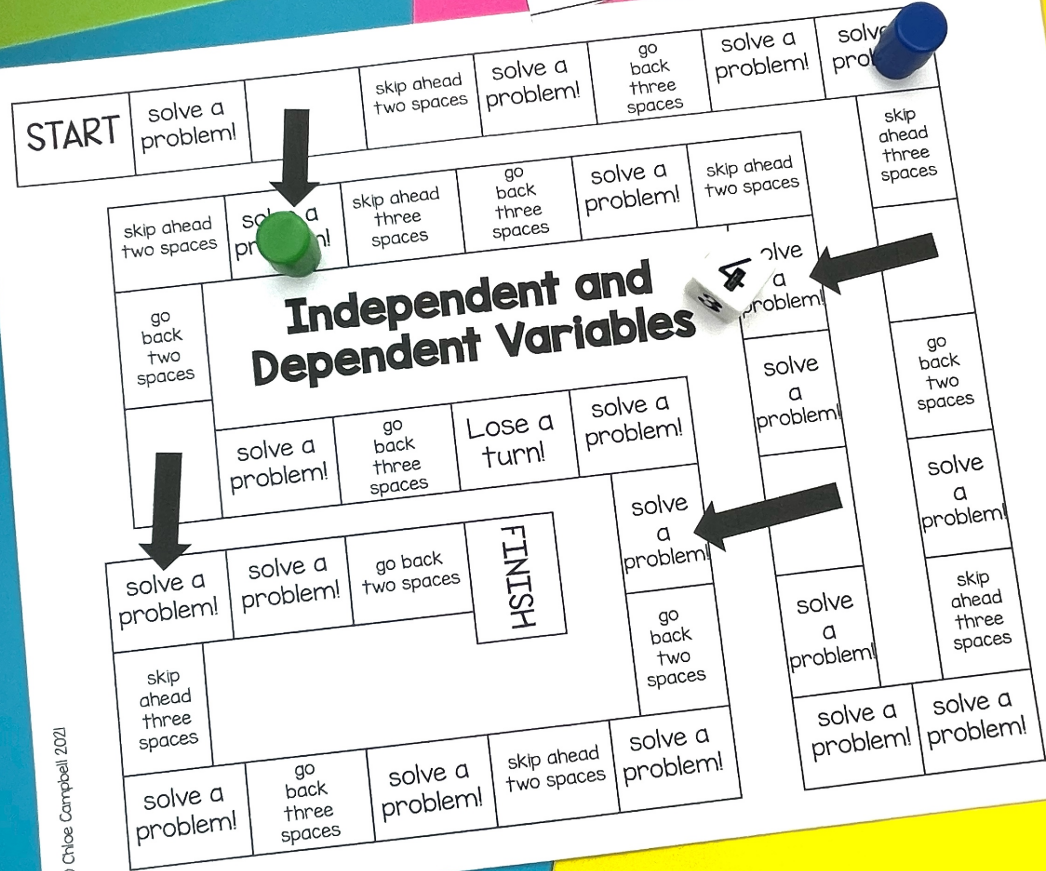7 - Marcus is wanting to purchase pineapples. Each pineapple is $2.50. What is the independent variable?

6 - Marcus is wanting to purchase pineapples. Each pineapple is $2.50. Write an equation to show total cost (c) based on the number of pineapples he buy (p).

10 - Marcus is wanting to purchase pineapples. Each pineapple is $2.50. How much money will Marcus spend if he buys 12 pineapples?

14 - Members pay for a subscription to a website to download music. The subscription costs $20 and then they pay $0.50 for every song they download. How many songs can you download for $35?
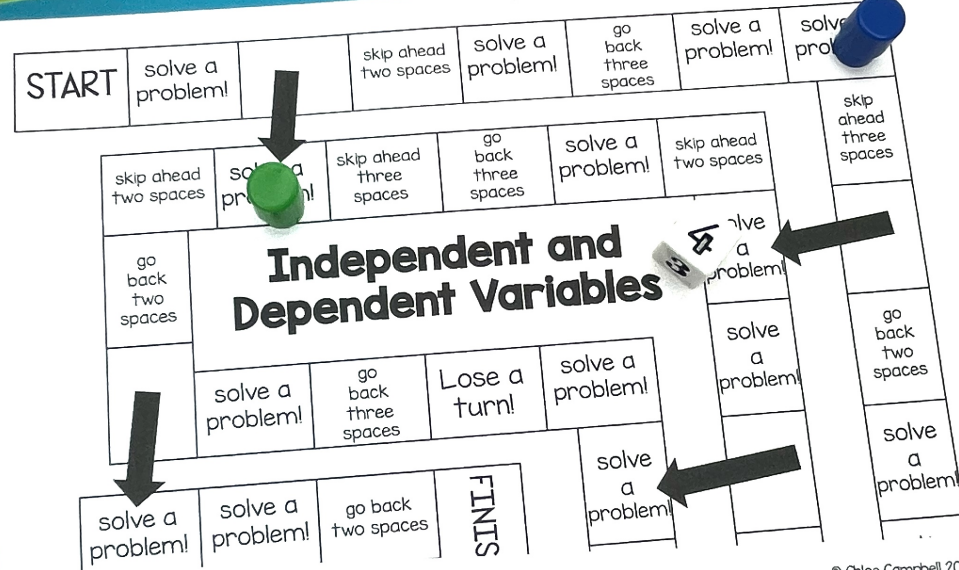
18 - Marcus is wanting to purchase pineapples. Each pineapple is $2.50. Create a table of values to show the relationship between the number of pineapples purchased and the amount of money spent.

19 - The crate weighs 20 ounces. Every can inside the crate weighs 32 ounces. Write an equation to show the total weight (w) based on the number of cans inside the crate (c).

This resource includes:

- Teacher Direction Page
- Board Game
- 20 Question Cards
- Student Recording Sheet
- Teacher Answer Key

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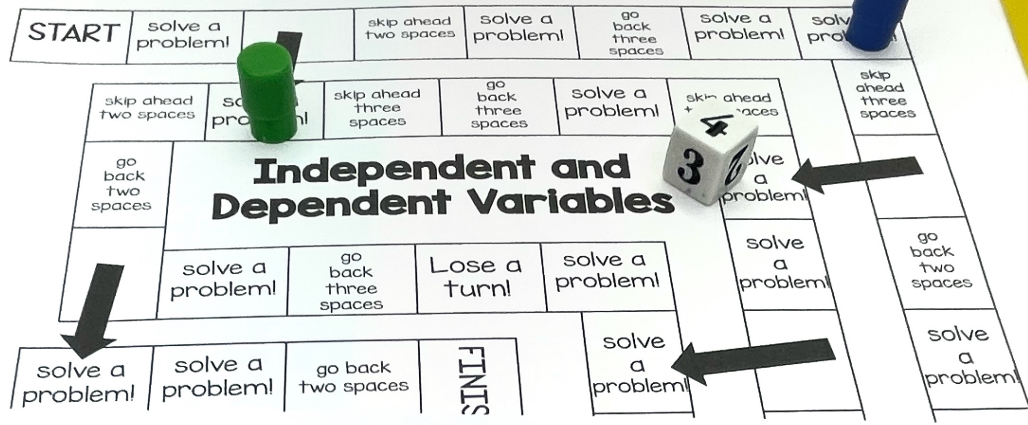
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go back two spaces | **Independent and Dependent Variables** | solve a problem! | go back two spaces

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

solve a problem! | solve a problem! | go back two spaces | **FINIS** | solve a problem!

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Independent and Dependent Variables Recording Sheet

Name

1	2	3	4
m = $1.50b		money earned	74
5	6	7	8
		# of pineapples	

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

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 ... spaces | skip ahead three spaces

go back two spaces | **Independent and Dependent Variables** | solve a problem! | go back two spaces

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Name ____

Independent and Dependent Variables Recording Sheet

1	2	3	4
m = $1.50b		money earned	74
5	**6**	**7**	**8**
$40.50	c = $2.50p	# of pineapples	
9	**10**	**11**	**12**

6 – Marcus is wanting to purchase pineapples. Each pineapple is $2.50. Write an equation to show total cost (c) based on the number of pineapples he buy (p).

10 – Marcus is wanting to purchase pineapples. Each pineapple is $2... How much money will Marcus spend if he buys 12 pineapples?

14 – Members pay for a subscription... a website to download... subscription costs $20... pay $0.50 for ever... download. How m... download...

18 – Marcus is wanting to purchase pineapples. Each p... Create a table of v... relationship betwe... pineapples purcha... of mon...

19 – The crate... Every can inside... ounces. Write... total weight... of can...

Chloe Campbell EDUCATION

Hold students accountable with a recording sheet

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.

- 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).

Teachers Like You Say:

⭐⭐⭐⭐⭐ "These are great for small group stations! What a fun task card adaption. 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!" – Anonymous

⭐⭐⭐⭐⭐ "Very easy to use and I truly believe students learn best through game play." –Tony

⭐⭐⭐⭐⭐ "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." –Nicole