

problemi two spaces problemi problem! three problem spaces skip ahead skip ahead solve a ahead back two spaces three three three problem! spaces Theoretical solve spaces Probability problemi solve a Lose a solve a back back problemi three problem! turn spaces Spaces solve a solve solve a FINISH solve go back problem! problem! a a two spaces problemi problem skip ahead solve back three ahead two spaces three problem spaces solve a solve a solve a skip ahead solve a problemi solve a three two spaces | problem! problemi problem! problem!

Suppose you roll a standard six-sided die 588 times. How many times would you expect to roll a 4?

Salman throws darts at a dartboard with 3 equal-sized sections numbered I-3. The table below describes the number of darts Salman lands in each numbered section. Based on this data, write down both the theoretical probability and the experimental probability that next time, Salman's dart will land in section 2

Section Number

1
2
3

The table below describes the number of number on a fair six-sided die during a se this data, write down both the theore experimental probability that next tir

	Die Number		Freq	
	1			
L	2			
L	3		7	
L	4		4	
5			7	
6			3	

SCROLL to take a look inside!

#### Math Skills Included:



Suppose you roll a standard six-sided die 312 times. How many times would you expect to roll a number less than 3?

The table below describes the number of times that Johanna rolled each number on a fair six-sided die during a series of experiments. Based on this data, write down both the theoretical probability and the experimental probability that next time, Johanna will roll a 2.

Die Number	Frequency
1	8
2	4
3	7
4	4
5	7
6	3

Salman throws darts at a dartboard with 3 equal-sized sections numbered I-3. The table below describes the number of darts Salman lands in each numbered section. Based on this data, write down both the theoretical probability and the experimental probability that next time, Salman's dart will land in section 2.

Section Number	Darts Landed
1	7
2	5
3	5

#### Solve Real World Problems and Make Predictions Based on Suppose you roll a standard six-sided die 588 tin Theoretical Probability



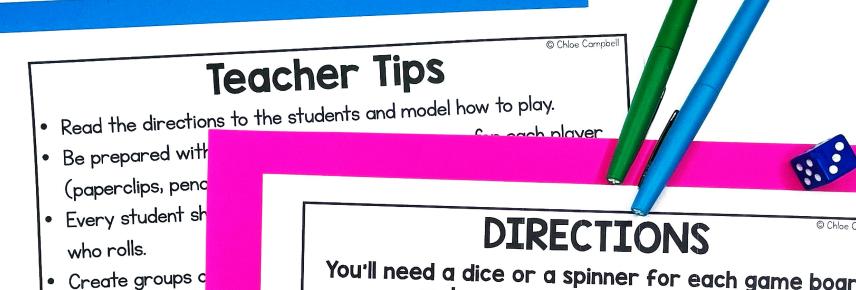


Printable Math Board Game





#### Receive



means the more

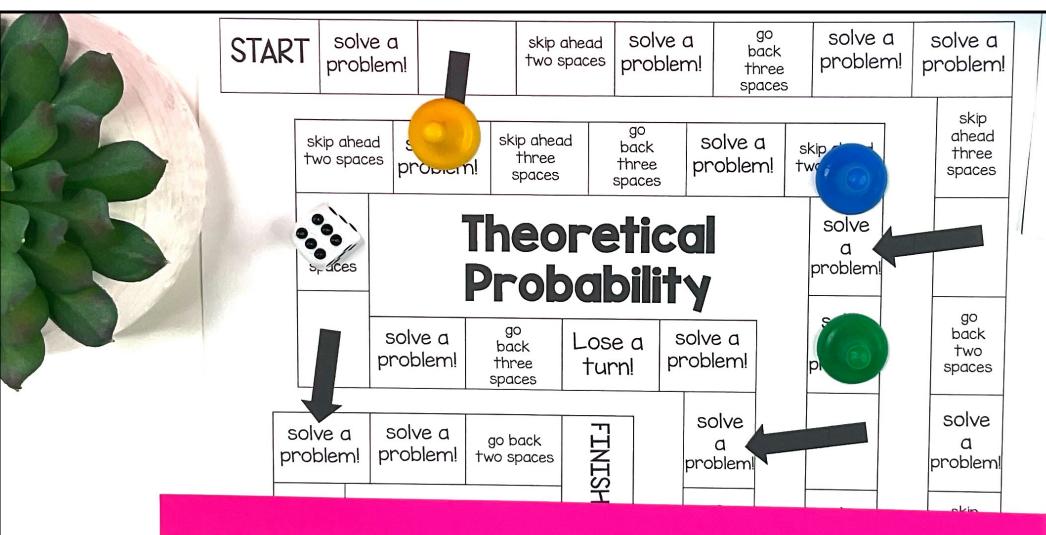
Remind students

just an added

You'll need a dice or a spinner for each game board and a game piece for each player.

The person whose name comes first in alphabetical order will play first in the game. Roll the die and move that number of spaces on the game board. Each person will solve the problem on their own recording sheet. Everyone will double check their answers with each other. If you have the same correct answers, the next person should roll the die. If you have different answers, discuss it with your team. Find a mistake in your work or try to solve the same problem again, then the next player may go.

If you land on a space with an arrow, you must solve the problem before moving to the next space. \*If you finish early, play the game again.



Name

Г	Theoretical Probability Recording She			ity Recording Sheet
	4 × 3 6 2 2	1 0	$\frac{1}{6} \times 588 = 98$	
	2 ×312 = 164	4 × 414=276	7 \frac{2}{6} \times 570:190	8 3/6 × 600 = 300
	1 × 234=39	10 1 = 26	Theoretical: $\frac{1}{3}$	Theoretical: 6
	13	14	15	16

Suppose you roll a standard six–sio would you expe

Suppose you roll a standard six-sided would you expect

111

#### Student Recording Sheet

Salman throws darts at a dar numbered I-3. The table below d lands in each numbered section. Bo

theoretical probability and the experimental probability main next time Salman's dart will land in section 2.

Section Number	Darts Landed
1	7
	/
2	5
3	5

The table below describes the number of times that Johanna rolled each number on a fair six-sided die during a series of experiments. Based on this data, write down both the theoretical probability and the experimental probability that next time, Johanna will roll a 2

	104 (1)
Die Number	Frequency
1	8
2	4
3	7
4	4
5	7
6	3

7

Suppose you roll a standard six-sided die 570 times. How many times would you expect to roll a number greater than 4?

## 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.

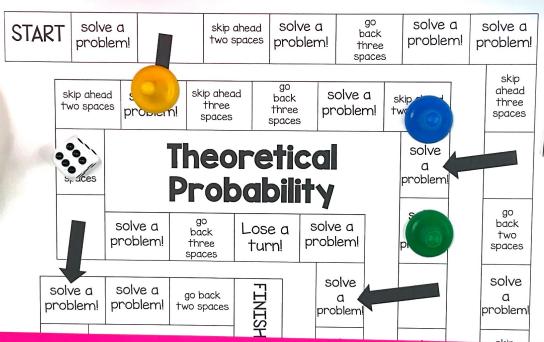
### Why Board Games?

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!





L	Name:	Theoretical Probability Recording Sheet		
	4 × 3 0 2 2	2 4 x 138 = 92		
	5 2 ×312 = 104	4 × 414 = 276	7 \frac{2}{6} \times 570:190	8 3/6 × 600 = 300
	1 × 234=39	10 1 x = 26	Theoretical: $\frac{1}{3}$	Theoretical: 4
	13	Н	15	16

Suppose you roll a standard six-sided die 234 times. How many times would you expect to roll a 4?

3

Suppose you roll a standard six-sided die 588 times. How many times would you expect to roll a 4?

Salman throws darts at a dartboard with 3 equal-sized sections numbered I-3. The table below describes the number of darts Salman lands in each numbered section. Based on this data, write down both the theoretical probability and the experimental probability that next time, Salman's dart will land in section 2.

Section Number	Darts Landed
1	7
2	5
3	5

The table below describes the number of times that Johanna rolled each number on a fair six-sided die during a series of experiments. Based on this data, write down both the theoretical probability and the experimental probability that next time, Johanna will roll a 2

		I real I	
Die Number 1		Frequency	
		8	
	2	4	
	3	7	
5		4	
		7	
6		3	
_			

Suppose you roll a standard six-sided die 570 times. How many times would you expect to roll a number greater than 4?

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