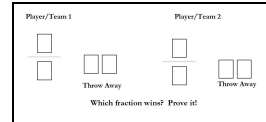# Smallest Product Wins!(Fractions)

Object of the Game
Place each of your rolls to make the smallest product!

Materials
- **Smallest Product Wins Game Board**

- 1 Dot Die   or Virtual Dice Roller:
https://www.virtualdiceroll.com/1/en/one-die

After you've gotten good at this game, try one of the variations!

Math Concepts & Mathematical Practices
- Multiply a fraction by a whole number.
- Reason about fractions and operations

How to Play

1. Play with a partner or in teams of 2 versus 2
2. Take turns. On your turn, roll the die, decide where to place the number you roll. You cannot move a number once you have placed it. You can throw away 2 rolls.
3. Use the sentence frames to make at least one mathematical statement on each turn.
   - I will place the number in the _____ because _____.
   - I hope I roll a _____ because _____.
   - I don't want to roll a _____ because _____.
4. After both players have filled all 3 boxes on their game boards, compare your fractions. Prove who won. Have a math conversation:
   - I know I have the smaller product because _____.
   - My winning strategy is _____ because _____.
   - I notice _____. I wonder _____.

Different Versions of Greatest Product Wins

1. The greatest product wins.
2. The fraction closest to _____ wins.

Smallest Product Wins!

	Player 1	**Player 2**
Round 1	$\square \times \dfrac{\square}{\square} = \rule{2cm}{0.4pt}$ Trash _____ _____	$\square \times \dfrac{\square}{\square} = \rule{2cm}{0.4pt}$ Trash _____ _____
Round 2	$\square \times \dfrac{\square}{\square} = \rule{2cm}{0.4pt}$ Trash _____ _____	$\square \times \dfrac{\square}{\square} = \rule{2cm}{0.4pt}$ Trash _____ _____
Round 3	$\square \times \dfrac{\square}{\square} = \rule{2cm}{0.4pt}$ Trash _____ _____	$\square \times \dfrac{\square}{\square} = \rule{2cm}{0.4pt}$ Trash _____ _____
Round 4	$\square \times \dfrac{\square}{\square} = \rule{2cm}{0.4pt}$ Trash _____ _____	$\square \times \dfrac{\square}{\square} = \rule{2cm}{0.4pt}$ Trash _____ _____

Written Reflection: What do you notice?   What do you wonder? What is your winning strategy?