

# Greatest Fraction Wins!

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## Object of the Game

Place each of your rolls to make the fraction with the greatest values.  
Greatest fraction wins!

## Materials

- [Greatest Fraction 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

- Compare Fractions
- Reason about the parts of a fraction

## How to Play

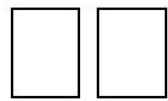
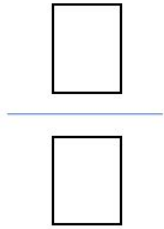
1. Play with a partner or in teams of 2 versus 2
2. Take turns. On your turn, roll the die, decide where to place the number you roll: numerator, denominator, or throw away. You cannot move a number once you have placed it.
3. Use the sentence frames to make at least one mathematical statement on each 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 4 boxes on their game boards, compare your fractions. Prove who won.
  - I know I have the larger/smaller fraction because \_\_\_\_\_.

## **Different Versions of Fraction Compare**

1. The largest fraction wins.
2. The smallest fraction wins.
3. The fraction closest to  $\frac{1}{2}$  wins.
4. The fraction closest to 1 wins.
5. [The greatest/least sum wins](#)
6. [The greatest/least difference wins](#)

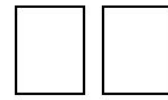
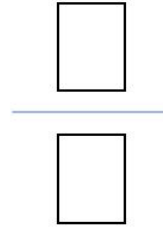
## Greatest Fraction Wins! Game Board

Player/Team 1



Throw Away

Player/Team 2

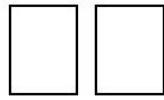
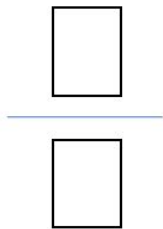


Throw Away

Which fraction wins? Prove it!

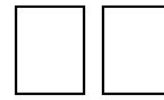
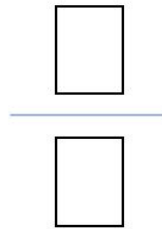
## Greatest Fraction Wins! Game Board

Player/Team 1



Throw Away

Player/Team 2



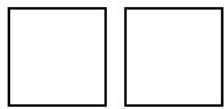
Throw Away

Which fraction wins? Prove it!

## Greatest Sum Wins! Game Board

Player 1

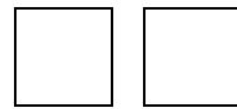
$$\frac{\square}{\square} + \frac{\square}{\square}$$



Throw Away

Player 2

$$\frac{\square}{\square} + \frac{\square}{\square}$$

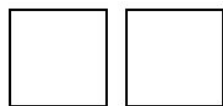


Throw Away

## Greatest Sum Wins! Game Board

Player 1

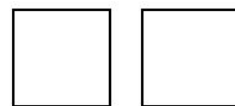
$$\frac{\square}{\square} + \frac{\square}{\square}$$



Throw Away

Player 2

$$\frac{\square}{\square} + \frac{\square}{\square}$$



Throw Away

## Greatest Difference Wins! Game Board

Player 1

$$\begin{array}{r} \square \\ \hline \square \end{array} - \begin{array}{r} \square \\ \hline \square \end{array}$$
$$\square \square$$

Throw Away

Player 2

$$\begin{array}{r} \square \\ \hline \square \end{array} - \begin{array}{r} \square \\ \hline \square \end{array}$$
$$\square \square$$

Throw Away

## Greatest Difference Wins! Game Board

Player 1

$$\begin{array}{r} \square \\ \hline \square \end{array} - \begin{array}{r} \square \\ \hline \square \end{array}$$
$$\square \square$$

Throw Away

Player 2

$$\begin{array}{r} \square \\ \hline \square \end{array} - \begin{array}{r} \square \\ \hline \square \end{array}$$
$$\square \square$$

Throw Away