On a Roll

Object: to be the first player to correctly complete the game board
Materials needed: *On A Roll* game board for each player, number cube for each group
Number of players: 2 or more

Teacher Preparation

Print out and copy one game board for each student.

Game Play

• Playing the game

Each player receives a game board. To begin, each player rolls the number cube. The player who rolls the greatest number goes first. Then the players take turns, going clockwise.

Player 1 rolls the number cube and records the number rolled in any of the blank squares on his or her game board, and it is the next player's turn. If Player 1 cannot place the number in a square, then that turn is over.

Once a number has been placed, it may not be moved.

• Winning the game

The first player to correctly complete the game board is the winner.

• Variation

Play the game with a die that has more than six sides.

Discussion

Ask students if they discovered any strategies while playing this game. For example, when playing with a standard number cube, would you place a 5 in the denominator of one of the equivalent fractions? Why or why not?

Ask students if the game would become easier or harder with a die that has more than 6 sides. Ask students to explain their answers.

ON A ROLL

Write a pair of equivalent fractions.

$$\frac{\square}{\square} = \frac{\square}{\square}$$

Write a fraction with a value greater than 1.

$$\frac{\square}{\square} > 1$$

Write a fraction with a value greater than $\frac{1}{2}$ and less than 1.

$$\frac{1}{2} < \frac{\square}{\square} < 1$$

Write a fraction that is **not** in simplest form.

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