

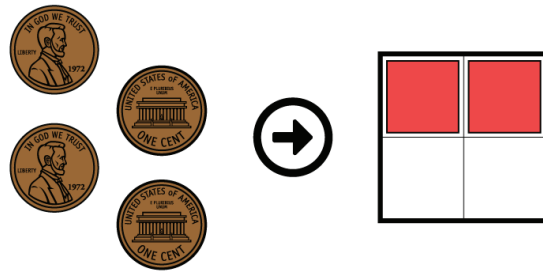
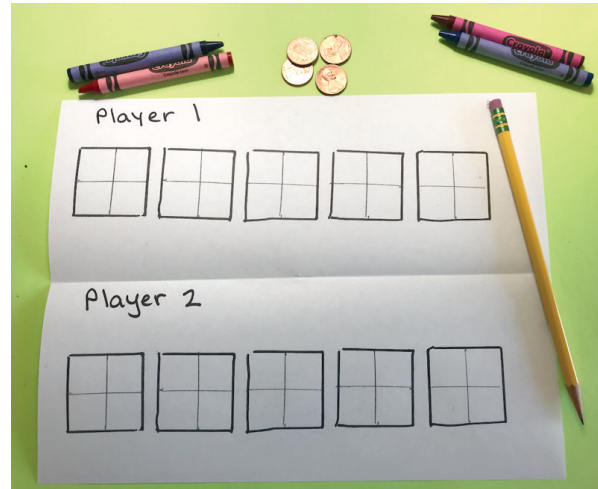
# Color 5 Fraction Game

## Object of the Game

Players take turns spinning a spinner or tossing coins to determine the number of fourths to color for each turn. The player who comes the closest to coloring in five whole squares after six turns wins!

## Materials

- A 1–4 spinner (or four coins)  
*Print the spinner, use a digital spinner, or make your own. You could instead use four coins. On a turn, toss four coins, count the number of coins that show heads, and color that many fourths. For example, if two coins show heads, color two-fourths of a square.*
- 1 Color 5 Fraction Game – Fourths record sheet  
*Print the record sheet or draw your own. You could also play on the free Number Frames app. The Color 5 Fraction Game is ready to play at [apps.mathlearningcenter.org/number-frames/?4ny52h37](https://apps.mathlearningcenter.org/number-frames/?4ny52h37). You could instead play the game with the Color 5 Fraction Game – Thirds record sheet.*
- Crayons, markers, or colored pencils in different colors
- Pencil or pen and a paper clip or safety pin, if using a spinner



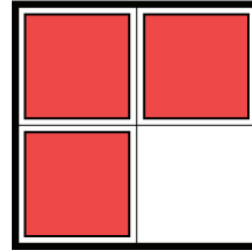
## Skills

This game helps us practice:

- Using the terms *quarter*, *fourth*, and *half* to talk about the four equal parts of a shape
- Identifying fractions as the number of equal parts in a whole

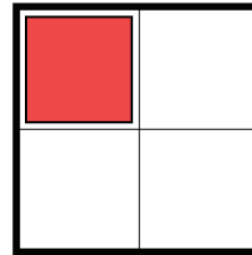
## How to Play

1. Get ready to play:
  - » Choose either a spinner or four coins.
  - » Players share a record sheet. Print a record sheet or make your own by drawing five squares for each player on a sheet of paper. Draw lines to divide each square into four equal parts.
  - » Decide who will go first.



*Rio: I got 3, so I'll color in three-fourths of this square.*

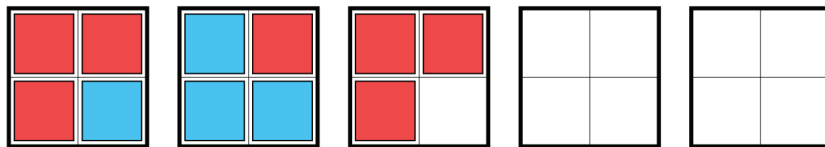
2. Player 1 spins the spinner or tosses the coins. The numbers on the spinner (or the number of coins that are heads) tell how many fourths of a square to color. It takes four fourths to make a whole square.
3. Player 1 colors in the number of fourths from the spin (or toss) using one color of marker or crayon.
4. Player 2 takes a turn spinning and coloring in fourths on their row of squares on the shared record sheet.
5. Players continue spinning the spinner or tossing coins and coloring in fourths on their row of squares until each player has six turns.



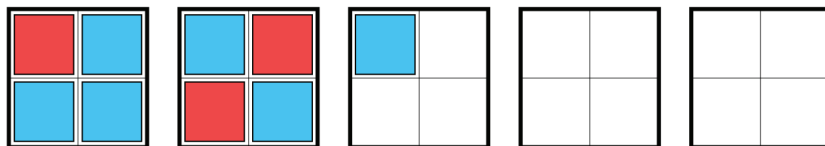
*Dad: I got 1, so I'll color one-fourth of my square.*

- » Players should alternate colors each turn. For example, coloring their first spin in red, their second in blue, their third in red, and so on.
- » Consider using tally marks to keep track of turns.


**Player 1** ||||

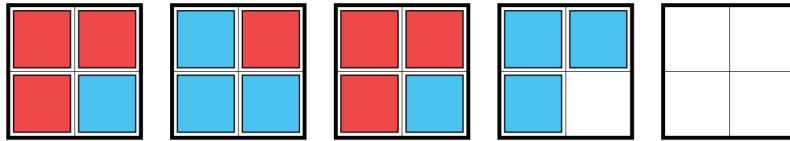



**Player 2** ||||

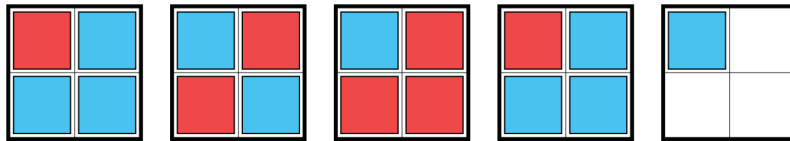


6. After each player has taken 6 turns, compare the results. The player who gets closest to 5 whole squares after six turns, either under or over, wins.

Player 1 



Player 2 

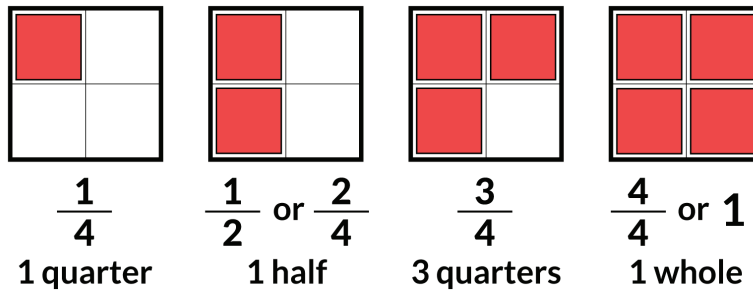


Rio: I got 3 and  $\frac{3}{4}$  squares. You win, Dad! You got 4 and  $\frac{1}{4}$  squares. You're closer to 5.  
Dad: Good game, Rio. Let's play another round.

## Tips for Families

Before the game:

- Talk about the fractions. Here are some of the ways you might refer to the shaded parts of the larger square.



During the game:

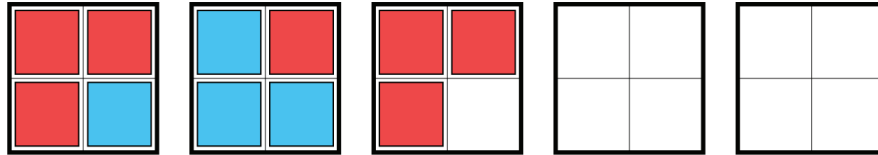
- Talk about the fractions that are made as the larger squares are shaded. Ask: *How much of the square is shaded? What fraction of the square is shaded? How much is left unshaded? How many wholes have you made? How many more fourths do you need to make a whole square?*
- Count the fourths as you color them in: one-fourth, two-fourths, three-fourths.
- Be sure to alternate colors each turn. It makes it easier to keep count and see the turns.
- Consider making tally marks to keep track of the number of turns. A game ends after each player has taken six turns.

## Change It Up

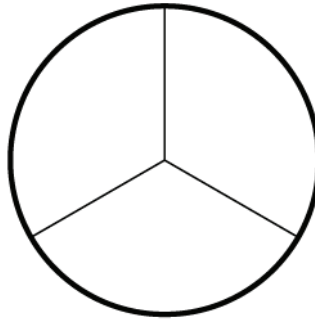
Making even small changes to a game can invite new ways of thinking about the math. Try making one of the changes below.

- Keep track of each turn by writing the fraction. If you spin 1, write  $\frac{1}{4}$ . You could also write the fraction to show how many whole squares and fourths you've colored so far. Player 1 has colored two squares and  $\frac{3}{4}$  of another square, so Player 1 would write  $2\frac{3}{4}$ .

### Player 1



- Print the Color 5 Fraction Game – Thirds record sheet or make your own by drawing five circles for each player. Draw lines to divide each circle into three equal parts. Use three coins instead of four. How do you think playing with thirds will change the game?



- Play with three or more players. You'll need to print another record sheet or draw a row of five squares for each additional player.

# COLOR 5 RECORD SHEET – FOURTHS

## Game 1


Player 1


Player 2

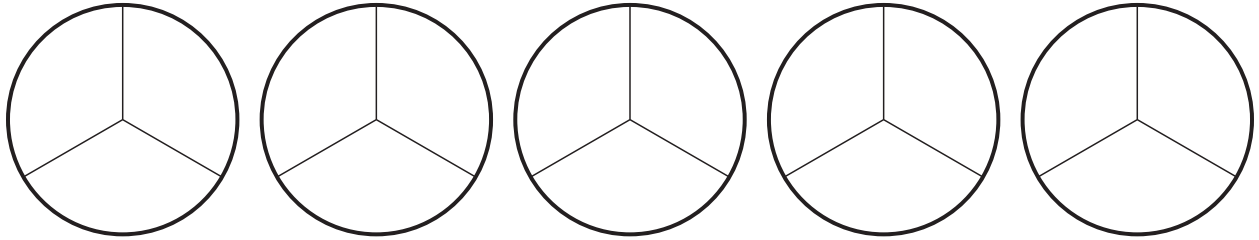
## Game 2


Player 1

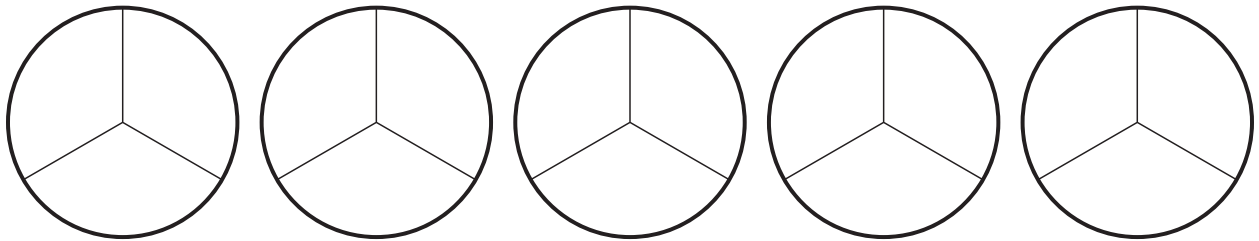

Player 2

# COLOR 5 RECORD SHEET – THIRDS

## Game 1

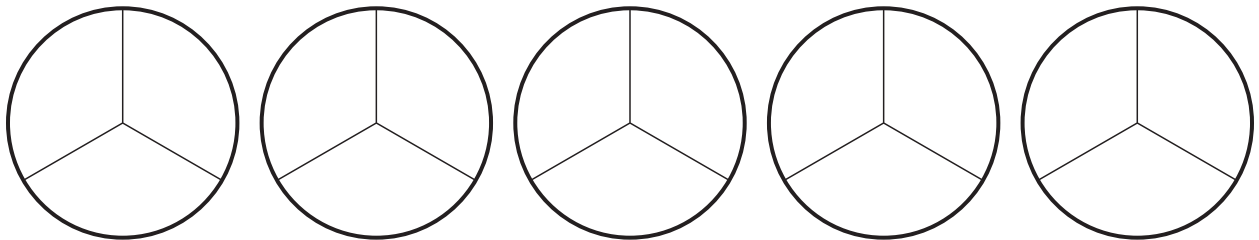


Player 1

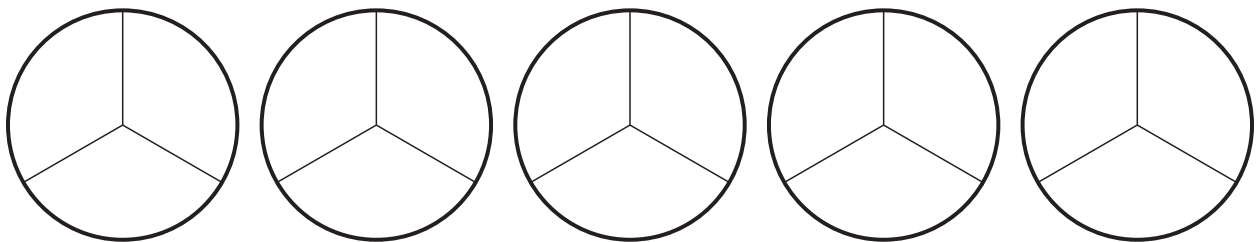


Player 2

## Game 2



Player 1



Player 2

# 1-4 SPINNER

