



Pizza to Go is a delicious way to play with fractions and get to know them. Here are seven games plus variations you can play. Many of the games are for two players, but if you have more, you can play with a partner.

After you've played these games, you'll probably have lots of ideas for creating your own games. Try them!

If you get hungry while you play, there's a recipe on the box for making your own pizza! **Have fun!**

Contents: 1 whole pizza, plus 8 pizzas cut into 2 halves, 3 thirds, 4 fourths, 5 fifths, 6 sixths, 8 eighths, 10 tenths, and 12 twelfths. Spinners A, B, and C.

For ages 7 and up

UPSIDE DOWN



For 1 player

You will need

The whole pizza and all the other pieces; a pencil; 8 small pieces of paper.

Before you play

Turn the pieces face down and mix them up.

How to play

The object of the game is to name the sizes of the pieces without seeing their fraction names.

Group all the pieces by size, keeping them face down. On a piece of paper write the fraction you think names each group. (Put the pieces on the whole pizza if that helps.)

Now turn the pieces face up and check their fraction names. Give yourself points for each group of pieces you named correctly.

Group	Points	Group	Points
$\frac{1}{2}$ pieces	1	$\frac{1}{6}$ pieces	3
$\frac{1}{3}$ pieces	1	$\frac{1}{8}$ pieces	3
$\frac{1}{4}$ pieces	1	$\frac{1}{10}$ pieces	5
$\frac{1}{5}$ pieces	3	$\frac{1}{12}$ pieces	5

If you get 1-12 points, try again! If you get more than 12 points, you're a fraction expert!

TWO PIZZAS ON ORDER

How to play

The object of the game is to be first to make 2 whole pizzas. (The pieces must not overlap or have spaces between them.)

On your turn, spin and choose the fraction spun on Spinner A or B. Take a piece that you think matches your fraction. (Put the piece on the whole pizza if that helps.) Then turn the piece face up and check its fraction name. If you were right, use the piece in your pizzas. If not, put it back face down in the draw pile and mix up the pieces. Your turn ends.

You may move pieces between your pizzas.

On only one turn, instead of spinning, you may trade one of your pieces for any piece from the draw pile.

You win if you are first to make 2 whole pizzas.

Play it again

For a faster game, turn the pieces face up in the draw pile.

For 2 players

You will need

The whole pizza and all the other pieces; Spinners A and B.

Before you play

Put the whole pizza face up.

Spread out the pieces face down in a draw pile and mix them up. Take turns spinning.

The player who spins the larger fraction plays first.



HALF A PIZZA



For 2 players

You will need

All the pieces except the thirds and fifths;
Spinner A; a pencil and paper.

Before you play

Give each player one $\frac{1}{2}$ piece. Spread out the other pieces face up in a draw pile. Take turns spinning. The first player to spin $\frac{1}{2}$ or $\frac{1}{4}$ starts the game and keeps score.

How to play

The object of the game is to make fractions equivalent to $\frac{1}{2}$ and be first to get 20 points.

Take turns. On your turn, spin a fraction and take a piece to match it. Put the piece in your bank.

If you spin $\frac{1}{3}$, you may take two $\frac{1}{6}$ pieces or trade a piece or pieces in your bank for equivalent pieces.

For example, you could trade a $\frac{1}{6}$ piece for two $\frac{1}{12}$ pieces, or two $\frac{1}{12}$ pieces for a $\frac{1}{6}$ piece.

If you spin $\frac{1}{5}$, you may take two $\frac{1}{10}$ pieces or trade a piece or pieces in your bank for equivalent pieces.

If you spin $\frac{1}{2}$, you get 5 bonus points.

On any turn, you may use your pieces to make a fraction equivalent to $\frac{1}{2}$ pizza. The pieces must all be the same size. You get 5 points for each fraction you make. Then put the pieces back in the draw pile.

You win if you are first to have 20 points.

PIZZA FEAST

How to play

The object of the game is to take away pizza pieces and be first to have 15 points.

Take turns. On your turn, spin a fraction and take away pieces from one pizza that match the fraction or are equivalent to it. For example, if you spin $\frac{2}{6}$, you could take away two $\frac{1}{6}$ pieces or one $\frac{1}{3}$ piece or four $\frac{1}{12}$ pieces.

If you cannot take away pieces, your turn ends.

You get 1 point for each pizza fraction you take away. You get 5 bonus points when you take away the last piece of a pizza.

The first player to have 15 points is the winner.

Play it again

Take away pieces from one or two pizzas on your turn. For example, if you spin $\frac{6}{12}$, you could take six $\frac{1}{12}$ pieces from one pizza, or you could take a $\frac{1}{6}$ piece from one pizza and a $\frac{1}{3}$ piece from another pizza.

For 2, 3, or 4 players

You will need

All the pieces except the whole;
Spinner C; a pencil and paper.

Before you play

Make 8 whole pizzas. Use all the same-size pieces in a pizza. Take turns spinning. The player who spins the largest fraction starts and keeps score.



LAST BITE



For 2 players

You will need

All the pieces except the whole; Spinner A.

Before you play

Make a whole pizza, using all the twelfths.
Make another whole pizza, using all the tenths. Spread out the rest of the pieces face up in a draw pile. Take turns spinning. The first player to spin $\frac{1}{10}$ or $\frac{1}{12}$ plays first.

How to play

The object of the game is to take away the last piece from either of the pizzas.

Take turns. On your turn, spin a fraction. If the fraction you spin is $\frac{1}{12}$ or $\frac{1}{10}$, take away a piece from the pizzas. If the fraction is not $\frac{1}{10}$ or $\frac{1}{12}$, take a piece from the draw pile to match the fraction. Put it in your bank.

Instead of spinning, you may take away pieces from a pizza that are equivalent to pieces in your bank. For example, if you have two $\frac{1}{6}$ pieces in your bank, you can take away three $\frac{1}{12}$ pieces from the pizza and put your $\frac{1}{6}$ pieces back in the draw pile.

You win if you take the last piece from either pizza.

Play it again

Play until the last pieces are taken from both pizzas.



PIZZA FRACTION MYSTERIES

How to play

The object of the game is to give and use clues to name mystery pizza fractions and be first to have 8 points.

Take turns being the clue giver. When you are giving clues, make a pizza fraction with pieces on your side of the wall. Then give clues to help the other player figure out what pizza fraction you made. Here are some examples of clues:

It is equivalent to $\frac{3}{4}$.

It is made of 5 equal pieces.

What fraction of a pizza is it? (Answer: $\frac{5}{10}$)

It is larger than $\frac{1}{4}$, but smaller than $\frac{1}{3}$.

It is made of 3 equal pieces.

What fraction of a pizza is it? (Answer: $\frac{3}{10}$)

You get 2 points if you guess the mystery fraction in 1 guess, 1 point in 2 guesses, 0 points in 3 guesses. The first player to have 8 points is the winner.

Play it again

Tally the players' points together. The object of the game is to have 15 points by the end of the fourth round of play.

For 2 players

You will need

All the pieces except the whole, one $\frac{1}{3}$ piece, and one $\frac{1}{5}$ piece; a large book or cardboard box; a pencil and paper.

Before you play

Give each player half of the pieces of each size. Make a wall between you with the book or box to hide your pieces. The player whose last name begins with the letter closer to P starts and keeps score.



2 PIZZAS TO GO



For 2 players

You will need

All the pieces except the whole; Spinner C.

Before you play

Give one player all the thirds, fourths, sixths, and tenths; give the other player all the halves, fifths, eighths, and twelfths. Each of you make four whole pizzas with your pieces. Use all of the same-size pieces in a pizza. Then take turns spinning. The player who spins the smaller fraction plays first.

How to play

The object of the game is to be first to have only two pizzas left.

Take turns. On your turn, spin a fraction and take away pieces from your pizzas that match the fraction or are equivalent to it. For example, if you spin $\frac{3}{12}$, you could take away $\frac{1}{4}$ or $\frac{3}{8}$.

If you cannot take away pieces, your turn ends.

You win if you are first to have only two pizzas left.

Play it again

The first player to have no pieces left is the winner.

