

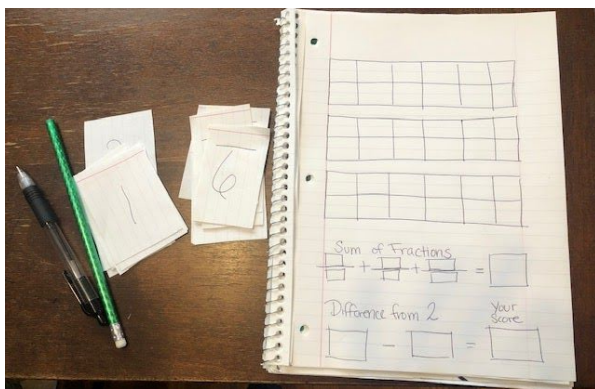
Target 2

Object of the Game

Players take turns using number cards to create fractions. Each player makes 3 fractions and adds them together. The player whose sum is closest to 2 is the winner. Be sure to check out Tips for Players and Families before playing this game.

Materials

- 2 decks of cards (1 deck of 1, 2, and 3 as numerator cards and 1 deck of 3, 6, and 12 as denominator cards) Download a set of [printable cards](#) 🖨️ or make your own cards. You can use paper, a grocery bag, or a cereal or other food box to make cards.
- 2 record sheets
Print copies of the [Target 2 Record Sheet](#) 🖨️ or make your own.
- Pencil or pen



Skills

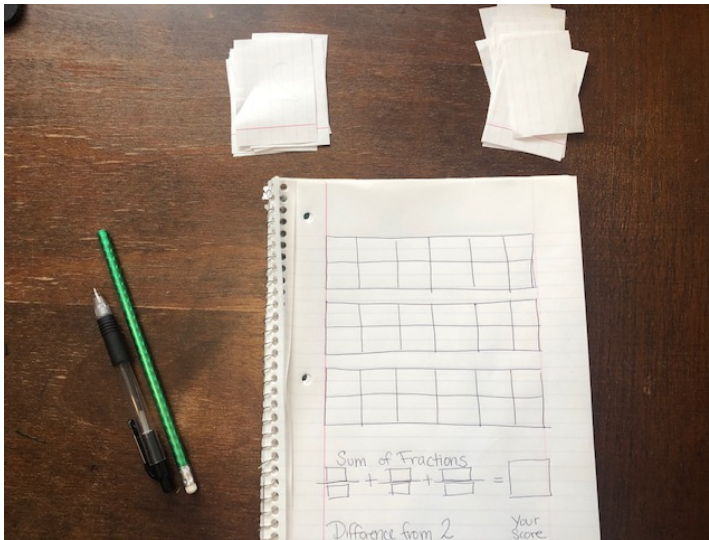
This game helps us practice

- Modeling fractions
- Adding fractions and mixed numbers
- Subtracting fractions and mixed numbers
- Representing fractions in more than 1 way

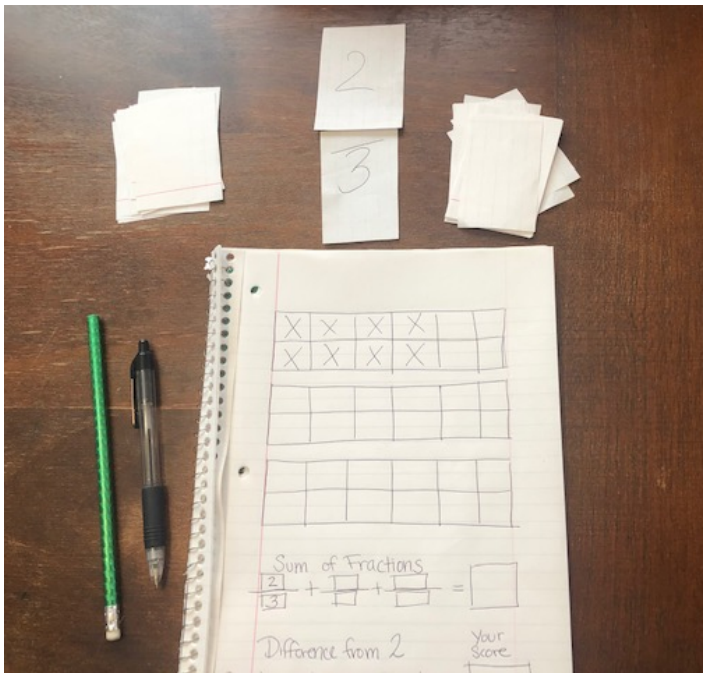
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How to Play

1. Lay the cards facedown in two piles: the numerator pile and the denominator pile.

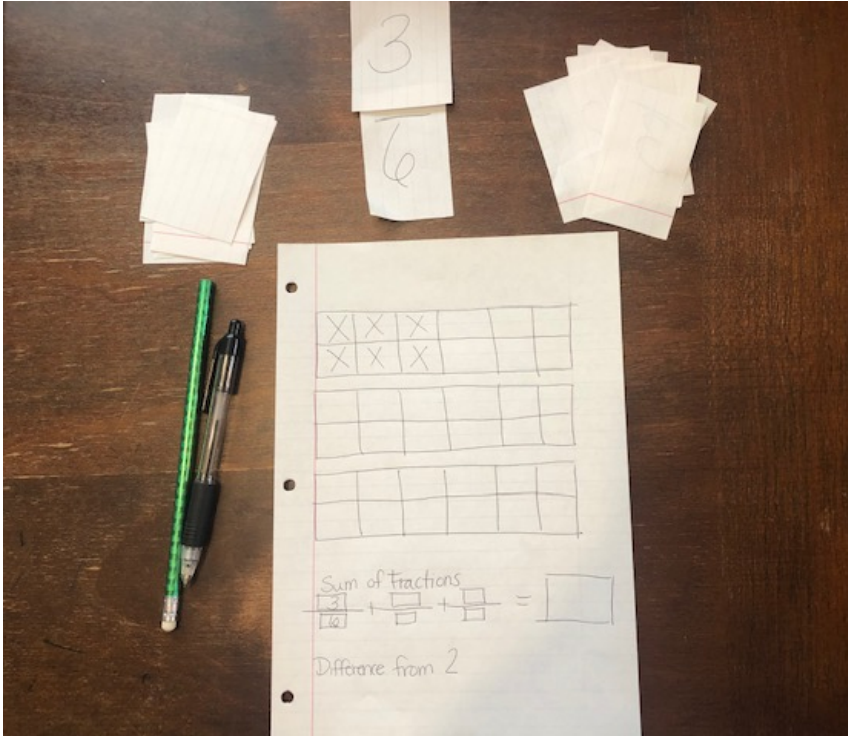


2. Each player chooses a numerator card and a denominator card, forming a fraction. They record the fraction and fill it in on their record sheet.



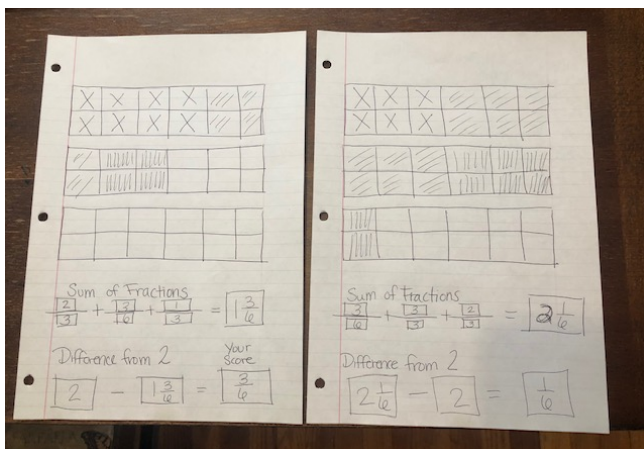
Mom pulled a numerator of 2 and a denominator of 3, making the fraction $\frac{2}{3}$. She can look at the model of $\frac{1}{3}$ and fill in 2 of those.

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Sasha pulled a numerator of 3 and a denominator of 6, making the fraction $\frac{3}{6}$. She can look at the model of $\frac{1}{6}$ and fill in 3 of those.

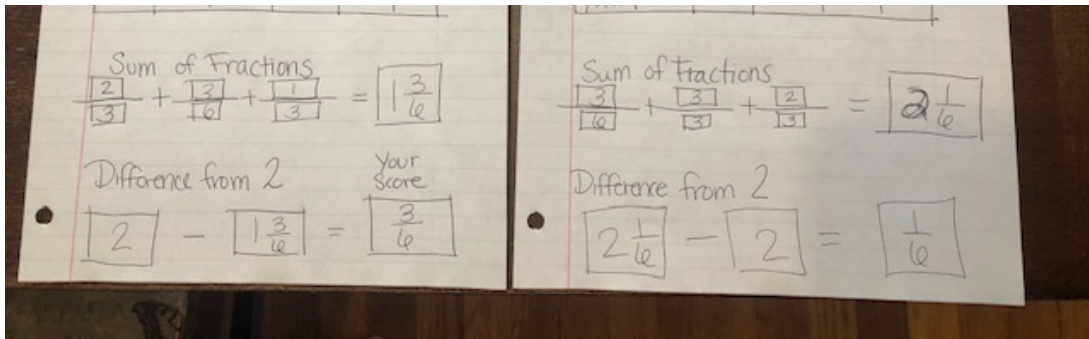
- Each turn, fill in the blocks with either different colors or a different pattern so that you can see the 3 different fractions to be added.
- After 3 rounds, players find the sum of the fractions they filled in.



Mom added $\frac{2}{3} + \frac{3}{6} + \frac{1}{3}$ to get a total of $1 \frac{3}{6}$. Sasha added $\frac{3}{6} + \frac{3}{3} + \frac{1}{6}$ to get a total of $2 \frac{1}{6}$.

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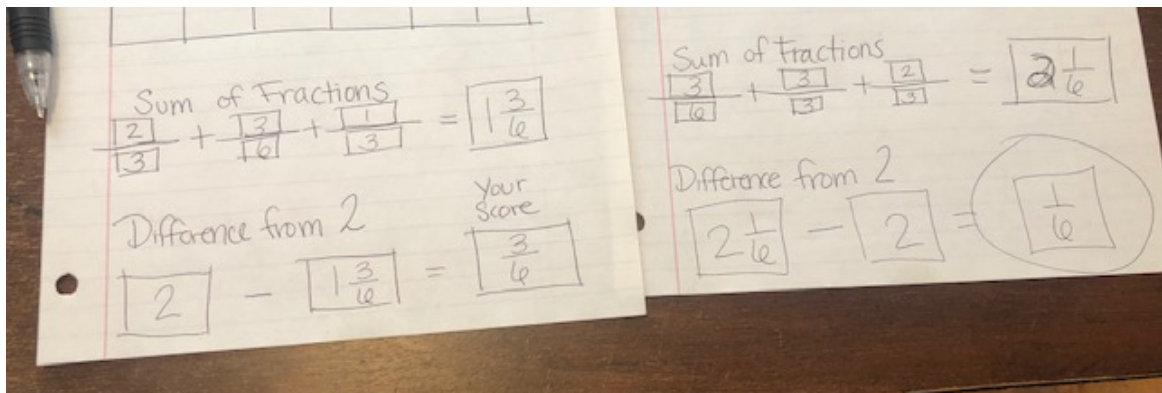
5. Players then find the difference of their sum from 2.



Mom's total was less than 2 so she subtracted it from 2.

Sasha's total was greater than 2, so she subtracted 2 from her total.

6. The player with the lesser difference wins.



Sasha's difference of $\frac{1}{6}$ is less than Mom's difference of $\frac{3}{6}$, so Sasha wins.

Tips for Players and Families

Before you play:

- Think about what you know about fractions. You may have learned about using egg cartons to think about fractions at school. If not, or if you'd like to teach others how to use this model, here's how it works.

Have you seen a carton of eggs? Have you ever thought about using an egg carton to learn about fractions? Look at the different images below. Each one represents a fraction. Today you will add fractions by choosing cards and the player with a sum closest to 2 after three turns wins.

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$$\frac{1}{12}$$



$$\frac{1}{3}$$



$$\frac{1}{6}$$

You don't have to use real eggs and egg cartons. You can use a drawing instead!

- Think about how each fraction will look when 1, 2, or 3 of them are filled in.
- Think about how you might model a fraction when 1 carton ends and another begins.

As you play:

- Talk about the fractions made. *Were any equivalent fractions made? What do you notice about the size of the denominator and the size of the fractional parts?*
- Find a way to compare Player 1's and Player 2's scores. Try writing each fraction as twelfths if you are confused. (Each block filled in is worth 1/12.)

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. How did it change your strategy for winning the game?

- Choose a different target number, such 1 or 3.
- Change the cards you're using. Try different denominators if you can model other fractions with the egg carton.
- Check out Math Learning Center's free [Fractions app](#).
Can you find different ways to model the fractions made during the game?

The free app is available for iPad, Web and Chrome.

You can get it here: [Fractions](#)

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1	2	3
1	2	3
1	2	3



<hr/> 3	<hr/> 6	<hr/> 12
<hr/> 3	<hr/> 6	<hr/> 12
<hr/> 3	<hr/> 6	<hr/> 12

Target 2 Record Sheet

Name _____

Sum of
Fractions:

_____ + _____ + _____ =

Difference from 2:

–

=

Your Score: