

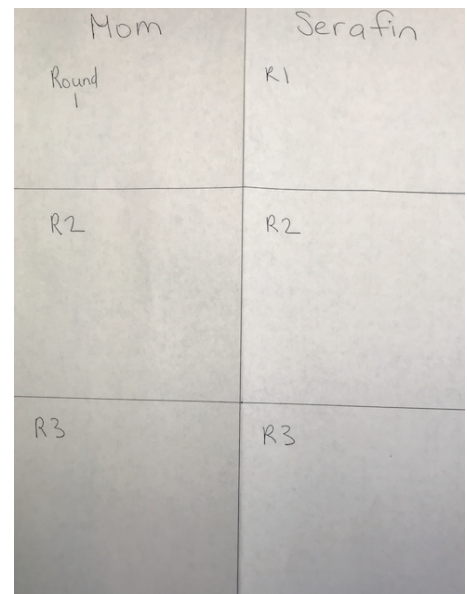
Target 20

Object of the Game

For each round, players choose three cards that have a sum (a total when added) as close to 20 as possible. The score for each round is the difference between a player's sum and 20. The lower total score after 3 rounds wins the game.

Materials

- 1 set of Number Cards (4 cards each of the numbers 1–10)
Print the cards or make your own. You can use paper, a grocery bag, or a cereal or other food box to make cards.
- 1 Target 20 Record Sheet
Print the record sheet or make your own.
- Pencil, pen, marker or crayon for writing your equations.



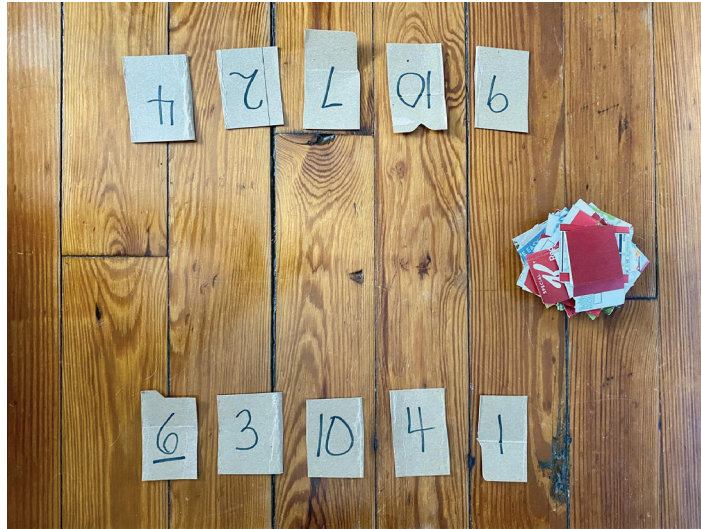
Skills

This game helps us practice

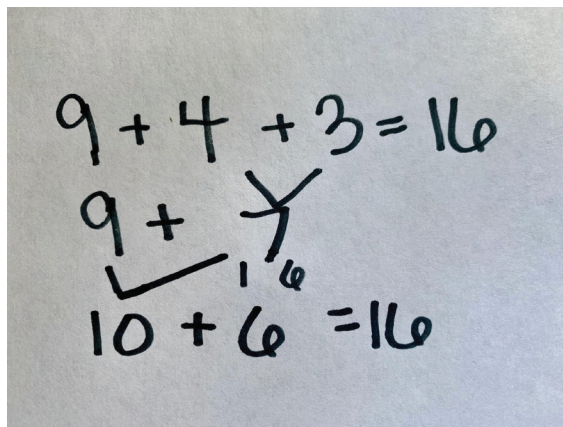
- Addition facts within 20
- Adding 3 numbers

How to Play

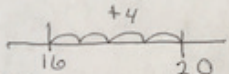
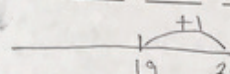
- Get ready to play:
 - » Shuffle the deck of cards stack them facedown between the players.
 - » Take turns drawing cards from the top of the pile until each player has 5 cards.
 - » Lay the cards face up as shown. It's okay to show your cards.



- Each player chooses 3 of their cards to add together to get a total as close to 20 as possible.
 - » Totals can be under (like 18) or over (like 21).
- Players record their numbers and add them together to show the results of their turn.
 - » You may use scratch paper to help you add, or you might like working with small objects such as buttons, cereal, or even toys.

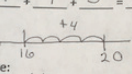
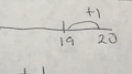
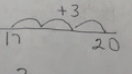
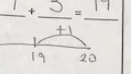
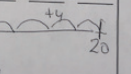


- The difference between a player's total and 20 is their score for the first round.

Target 20 Record Sheet	
	Player 1: Mom
Round 1	$9 + 4 + 3 = 16$  <p>Score: 4</p>
	Player 2: Serafin
	$9 + 7 + 3 = 19$  <p>Score: 1</p>

Mom got a total of 16. Her score for this round is 4 because the difference between 16 and 20 is 4. Serafin got a total of 19, so her score is 1. After the first round, Serafin is ahead.

- At the end of the round, players put the cards they used in a separate stack, and then take turns drawing 3 new cards from the deck so they each have 5 cards again.
- Play two more rounds of the game.
- After the third round, players add up their scores to determine the winner. The lower score wins the game.

Target 20 Record Sheet	
	Player 1: Mom
Round 1	$9 + 4 + 3 = 16$  <p>Score: 4</p>
Round 2	$8 + 8 + 3 = 19$  <p>Score: +1</p>
Round 3	$8 + 6 + 3 = 17$  <p>Score: 3</p>
Final	$4 + 1 + 3 = 8$
	Player 2: Serafin
	$9 + 7 + 3 = 19$  <p>Score: 1</p>
Round 2	$9 + 6 + 5 = 20$ <p>Score: 0</p>
Round 3	$9 + 4 + 3 = 16$  <p>Score: 4</p>
Final	$1 + 0 + 4 = 5$ <p>Serafin won!</p>

Target 20 Record Sheet	
	Mom
Round 1	$9 + 4 + 3 = 16$ $20 - 16 = 4$ <p>Score</p>
R2	$8 + 8 + 3 = 19$ $20 - 19 = 1$ <p>Score</p>
R3	$8 + 6 + 3 = 17$ $20 - 17 = 3$ <p>Score</p>
Final	$4 + 1 + 3 = 8$
	Serafin
R1	$9 + 7 + 3 = 19$ $20 - 19 = 1$ <p>Score</p>
R2	$9 + 6 + 5 = 20$ $20 - 20 = 0$ <p>Score</p>
R3	$9 + 4 + 3 = 16$ $20 - 16 = 4$ <p>Score</p>
Final	$1 + 0 + 4 = 5$ <p>Winner</p>

It was a close game. Serafin won because 5 is 3 points lower than Mom's score of 8.

Tips for Families

Before you play:

- Talk about numbers that add up to 20. What are some pairs of numbers that have a sum of 20? ($10 + 10$, $15 + 5$, $12 + 8$). Now, think about how you could break one of the numbers into 2 numbers. For example, if $10 + 10 = 20$, you could break 10 into 7 and 3. Now you have 3 numbers ($7 + 3 + 10 = 20$). That's 1 kind of strategy you might use when playing this game.

While playing you can ask some of the following questions:

- *Which numbers are you hoping to draw? Why?*
- *Is there another combination to try? Did it get you any closer to 20? Remember, it doesn't matter if you go over 20.*
- *If you add our scores for the first two rounds, who's ahead? By how much? Oh, so you have 7 points, and I have 10, so you're ahead by 3 because low score wins? Do you think I can still win? Why or why not?*
- *Are there three numbers in our deck of cards you could get that would add up to exactly 20? Can you think of a different combination of three cards that would add up to 20? How many different combinations of three cards do you think there are that total exactly 20? Shall we see if we can find out?*

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?

- Use the Wild Cards to play the game. A wild card can be any number (1 to 10) a player wants it to be. If a player uses a wild card, they put a star above the numeral made from the wild card in the equation on their record sheet.
- Play cooperatively, drawing one hand of cards and working together to get the lowest score.
- Choose a different target number, such as 15 or 18.
- Try playing with 3 or 4 players.



1	2	3
1	2	3
1	2	3
1	2	3



4	5	6
4	5	6
4	5	6
4	5	6



7	8	9
7	8	9
7	8	9
7	8	9



10	Wild Card	
10	Wild Card	
10		
10		

Target 20 Record Sheet

Name _____

Name _____

Round 1

	$\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$	$\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$
Score		

Round 2

	$\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$	$\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$
Score		

Round 3

	$\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$	$\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$
Score		
TOTAL SCORE	$\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$	$\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$