**Subtract to One Game**

This game is played in 5 steps.

**Materials:**

* A deck of cards (remove face cards and any wild cards - the ace will represent a 1 and the 10 card will represent the number 0) You could use dice if you don’t have cards.
* A round object, or a card, to represent the decimal point
* Pencil and paper
* A calculator (for checking only, unless you are playing with a younger sibling)

**Number of Players:**

* 2-3 players
	1. You can also play this by yourself just to see how close you can come.

**Object of the game:**

* To get as close to 1 as possible, without going below 1, after 5 subtractions from your target number.
	1. Remember that every number contains a decimal. With whole numbers, you can’t see the decimal point, but it is always to the right of the ones place.

**Directions:**

* Shuffle the cards and place facedown on the playing surface.
* Each player starts at the number 10.
* Take turns.
	1. Take the top two cards from the deck and make a number. (Remember you must use the decimal point, even if you are making a whole number.)
	2. Use this number to subtract from 10.
	3. Your opponent must check your number. (This can be done using the calculator, if needed.)
	4. It is now your opponent's turn.
	5. Complete four more turns each.
	6. If a player is below the number 1 at any time , that player automatically loses.
	7. After the fifth turn, the player that is closest to 1 wins.

**An example of 1 player completing 5 turns:**

* The 0 in front of the decimal doesn't count. As part of the cards drawn. It is just the correct way to write a decimal number with no whole numbers in it.)

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| --- | --- | --- | --- | --- | --- |
| Turn | Cards Drawn | Options  | Chooses | Subtract | Total |
| 1 | 4 and 5 | 4.5, 5.4, 0.54... | 4.5 | **10** - 4.5 = 5.5 | **5.5** |
| 2 | 0 and 6 | 6.0, 60, 0.6, 0.06... | 0.6 | **5.5** - 0.6 = 4.9 | **4.9** |
| 3 | 4 and 1 | 0.41, 1.4, 0.14 ... | 1.4 | **4.9** - 1.4 = 3.5 | **3.5** |
| 4 | 3 and 2 | 2.3, 3.2, 0.32... | 2.3 | 3.5 - 2.3 = 1.2 | **1.2** |
| 5 | 1 and 9 | 1.9, 0.91, 0.19... | 0.19 | 1.2 - 0.19 = 1.02 | **1.02** |

 Player 1 has a final score of 1.02. That is VERY close to 1 and would probably win most games!