

Give Player A Numbers 2-6. Give Player B numbers 8-12. Numbers 8-12 have the same amount of chances as 2-6 has, If you roll 7 then you lose 2 turn because 7 has the most Chances. It wouldn't be fair if you gave player A Z-7 or Player B 7-12 because the player with 7 would have the most chances of win ning. This is a game of luck but I think it would the more THIS THEORY WAS HAR Fair this way possible with the Help of STEFFIG'S CNART!! Brian H. 3 Angela P.

1-1,2,3,4,56 2-1, 2, 3, 4, 5, 6 3-1,2,3,4,5,6 9-1,2, 34,5,6 5-1,2,3,4,5,6 6-1, 3, 4, 5, 6



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MARCH 21,1994



H: People 1

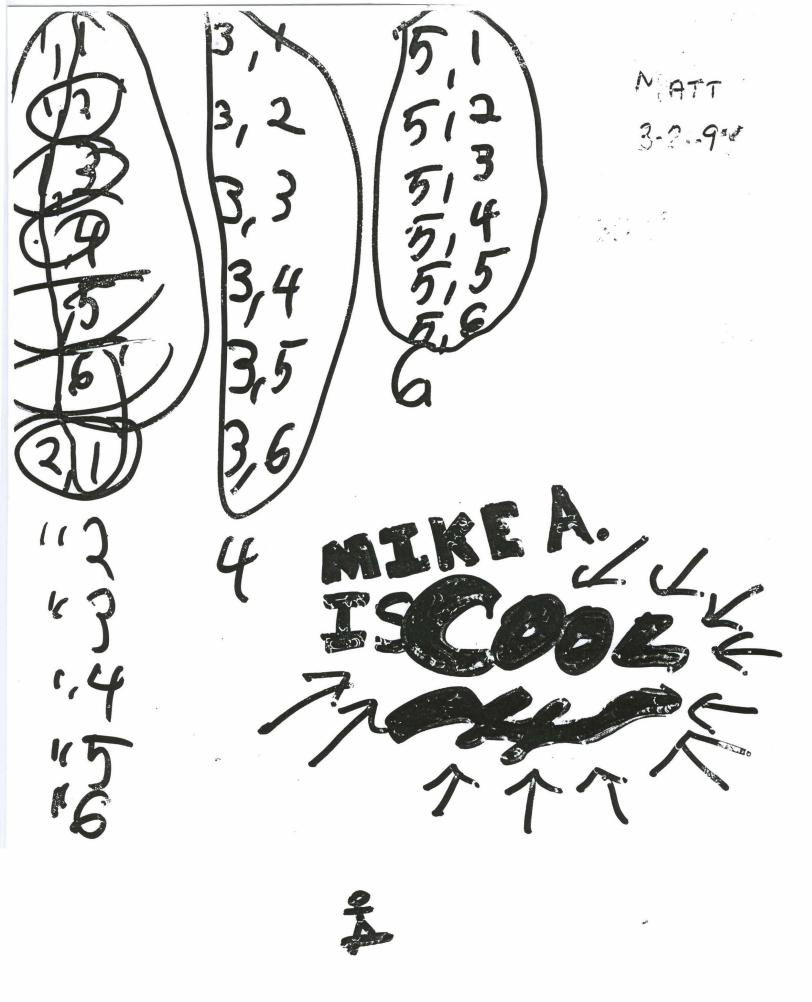
= impossible 1-1.1 くころい 1=3,1/2,4 5=4,1/2,3-5=3,3/2,4/5,1-7=3,4/5,2/6,1-8=4,4/5,3/6,2-9 = 6,3/5,4 10=5,5/6,4 11:5,6 12:6,6

Player B has an admintage. A does have a chance of winningbecause B doesn't have that much of an advert New game : Player 9)2,3,4,5,6 Player 6) 12, 11, 10, 9,8

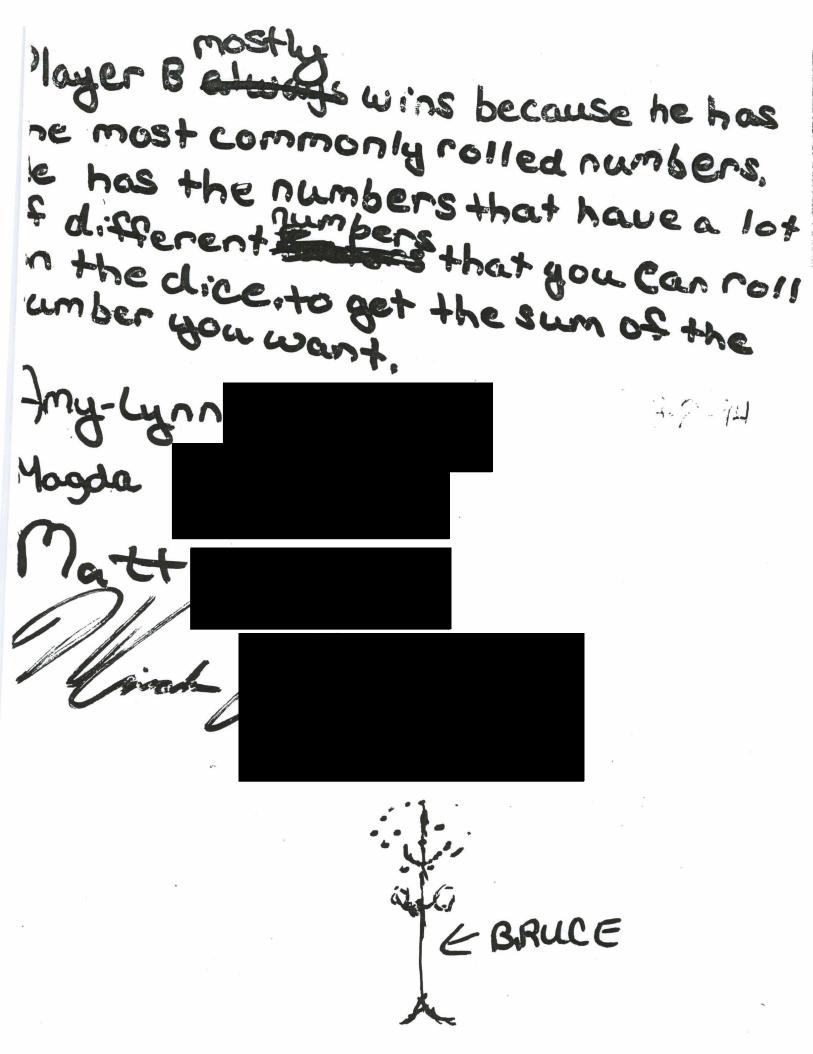
Jeff XX, Michelle 3/21/94 Surar. Sarah Rom; na. Flager B new and Player A 550 11498

7- Roll Again This is just a way to make the game fair. Now it is just based on the coll of the dice. Player A and Player Balternok every game in rolling the dice. It is the best of five Series.

There are more chances of getting A 7 than getting a two. In In order to get a two you have to roll 1.1-3/21/94 nothing else, But a 7 --- you can Roll 64 h 3 = 4; 5 + 2. Just like 12, all you can roll is 6-6-nothing else Asually 6,7,8,+9 Come out. To Make FA lichae Rearrange e Aumbers Player ayer 23 pokelle Ruggin

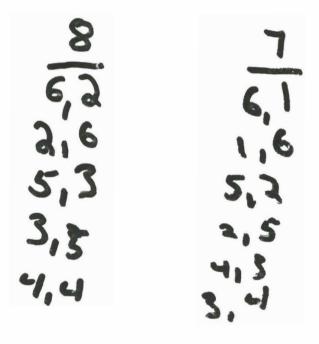


Jeft Michelle 3/21/94 Player A=Blue Sarah Romma Player B = Green 1- impossible 2-11- 1 3-2,1-1 K 4-2,2/3,1-2 5.3,2/4,1 -2. 6-3.3/4.2/5,1-3 7-4,3/2.5/6.1-3 8-44/62/3,5-3 9-5,4/6,3-2 10-5,5/6,4 -2 11-5,6 -1 12-6,6 -1 Player B has Bpossible chances of the Dice landing on these number. Player A only has & Chances



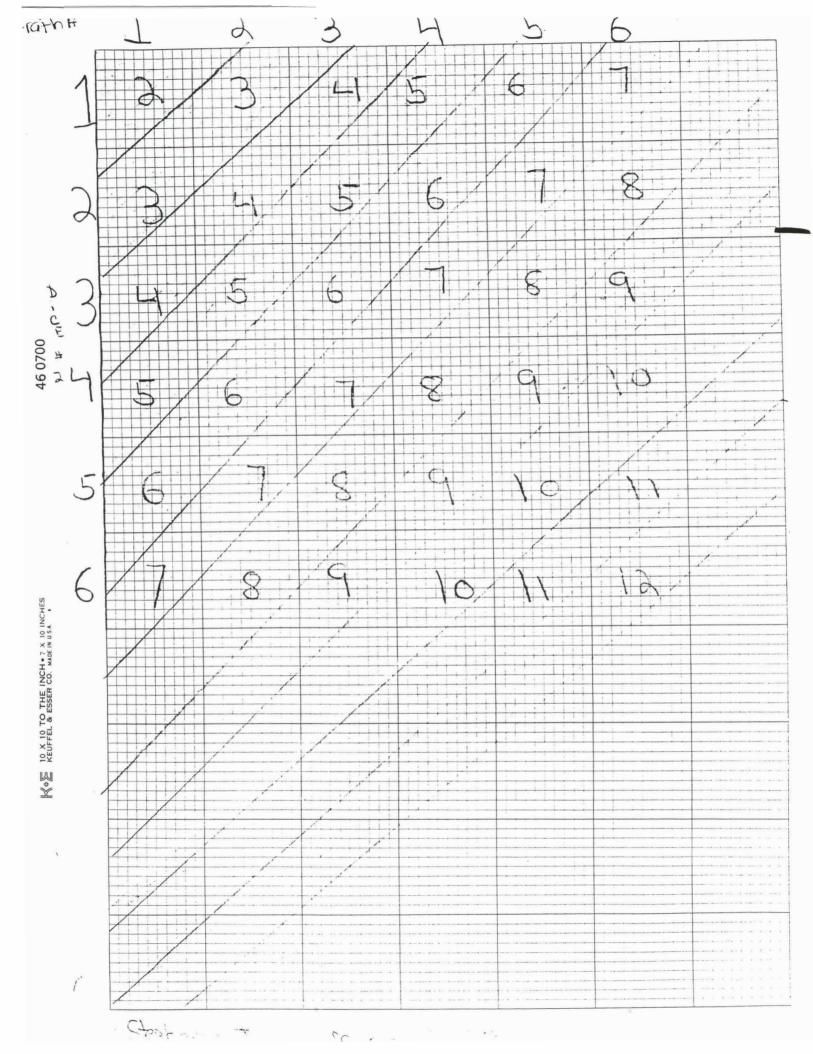
A FINAL GAME: WINNER TAKES ALL Directions: Roll two dice. If the sum of the two is 5, Player A wins the game. If the sum is 8, Player B wins. Continue rolling the dice until there is a winner.

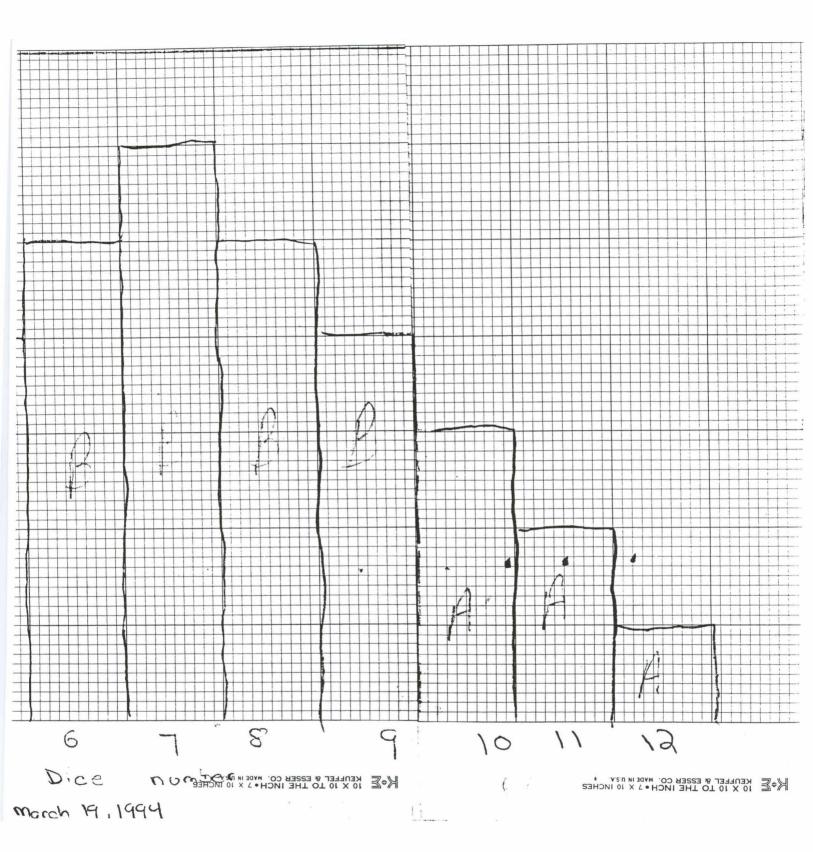
1. Suppose you have the choice to be Player A or Player B. Which would you choose? Explain your decision.

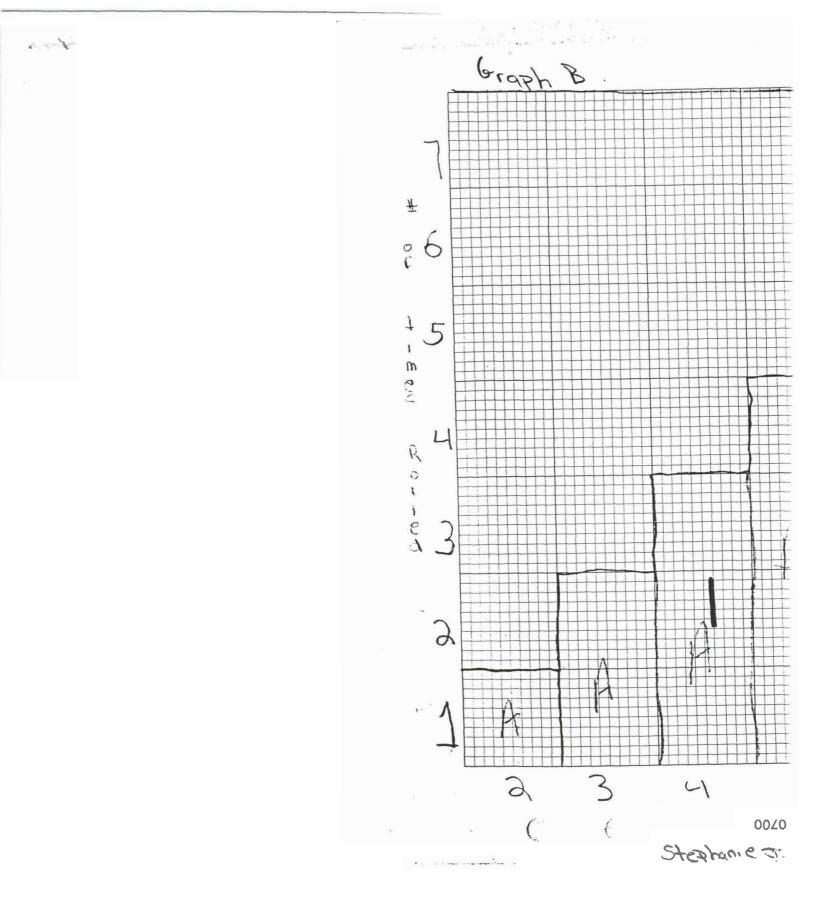


Stephanie

6,6 3410 11 AZ 1,1 2,1 2,2 5,5 5,6 1,3 6,4 3/21/92 4 the most 5551 chances to 56 789 get these 1,4 3,3 4,3 4,4 5,4 noonbers. 6,3 Thats why 3,21,55,25,3 4,2 6,1 612 b always pr most of the line wing Michael 15 coo/ Any-lya Michele RER MAD Magde



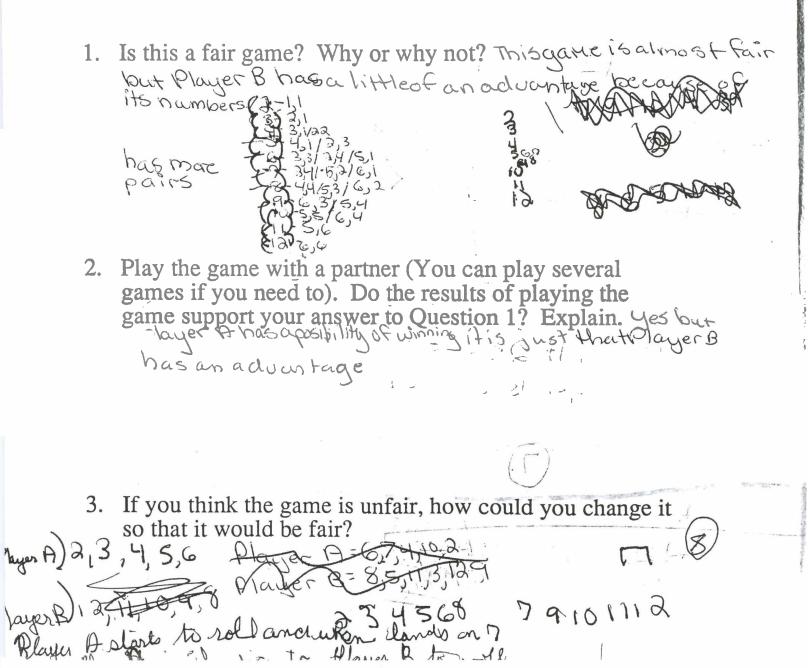




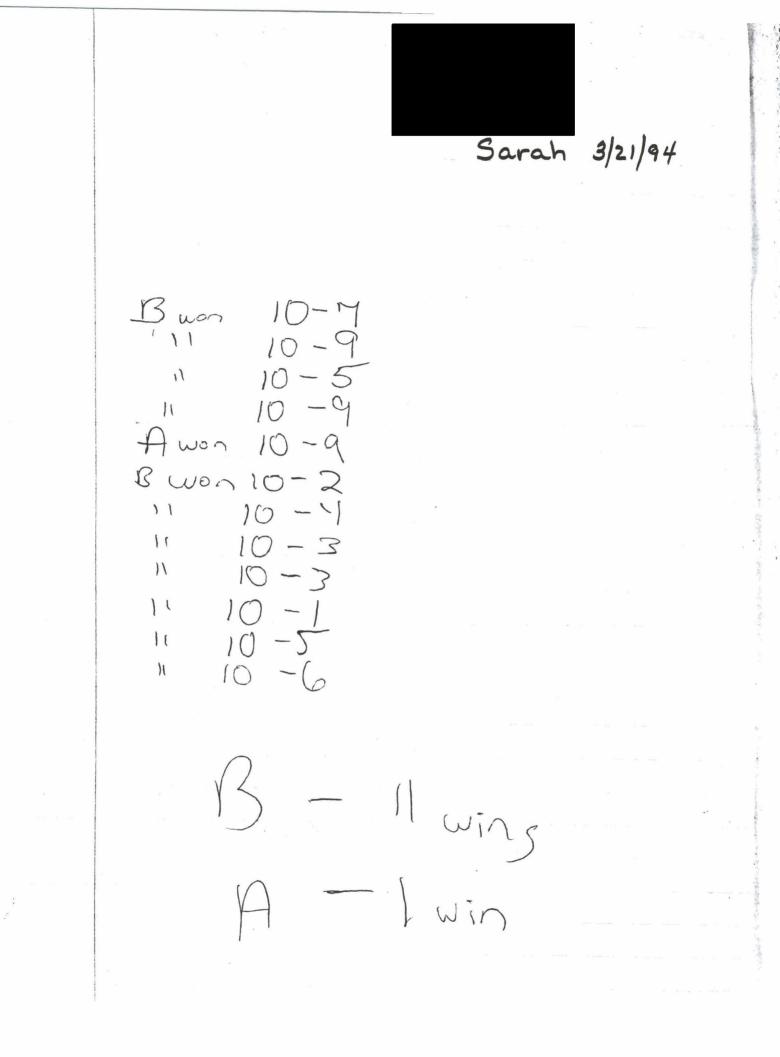
**ANOTHER GAME FOR TWO PLAYERS** 

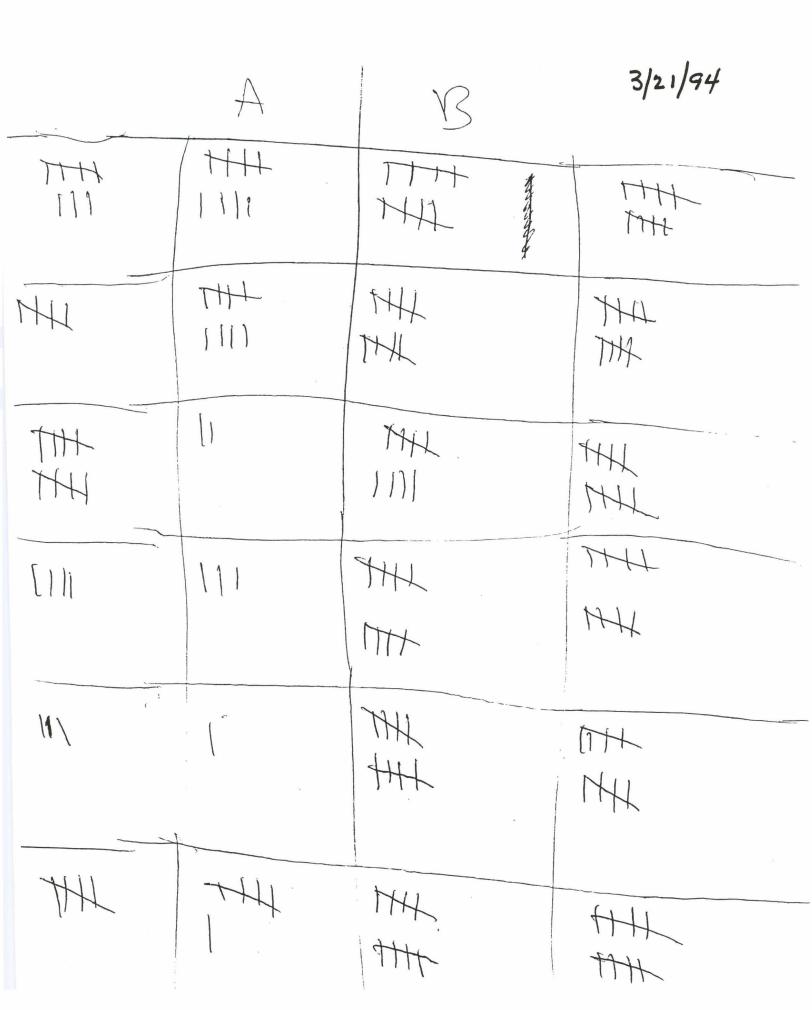
3/21/94

Directions: Roll two dice. If the sum of the two is 2, 3, 4, 10, 11, or 12, Player A gets 1 point (and Player B gets 0). If the sum is 5, 6, 7, 8 or 9, Player B gets 1 point (and Player A gets 0). Continue rolling the dice. The first player to get 10 points is the winner.

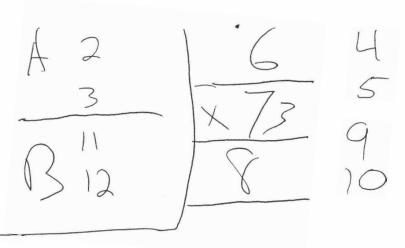


2,3,4,10,11,12-Player a 2-11 567.89-PlayerB 3-2,1 4-3,1/2,2 5-4,1/2,3 6-33/4,2/5,1 7-3,4,5,2/6,1 no dice 8-62/5,3/4,4 9-63/5,4 a ei muin ei Table A tobal 10-5,5/6,4 or út ser i n 11-6,5 12-6,6 Player 444 winne ++++ 1 H H winner Winne C Player A 23456 Vlayer B 8 9 10112 A R the 1U1 11





Player A Player B Ganel Elly Game J Game J stell Player A Jeff Player L Jaget A Jeff Player L Jaget J J21/5 7'5-), 1, 1, 1, 1, 1, Mahalk



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5-9 AMY a yer B. - Won MAGDA Player A Se . 3/21/94 5,4 2 6,1 515 ) 1 Filly 6,6 1 413 2,11 4,1 2,2 1 4,1 2,2 1 , 3,2 12,3 14,3 16,3 15,1 15,4 Player B Player A 1 6,3 14,6 1 5,2 12,2 4,2 156 , Bid 16,4 133 16,4 16,2 15,5  $(e_i)$ (3) 1452 121 1 5;1 11/1 141/ 5,1

Player B Player. Player A layer A 14,2. らふ 1 1,1 ( le, 1 3;1 4,2 , 6,5 , 4,4 6,3 3/21/94 Amy 5,6 2,1 16,1 1 6,5 Magda 4,1 (1)153 11/ 5,2 112 16,2 5,4. (5,1 U=11 4,3 1 5,2 5-5 43 151 6=6 5,4 15,4 4,2 シニン 14,1 BB 418 6,2 5,2 612 Player H Player B 6,6 612 21 615 333 りみ 3,1 5,4 655 5,6 3,1 5,3 5,5 6,3 5,2 2,1 6,3 与川 5,5 5,1. 5,4 5,6 4,2 5/2 66 a,5 5:1 1,2 : 5,4 23 J, J 6,2 01:3 4,3

" ..... 売け There are more chances of getting 7 than a 2. There are less chances of getting 3 than an fight. It seems the model number 5-9 and fave a stetter chance of coming out than 2, or 13. Tours, dwas, threw + never come out Sino

chelle MICHELLE 3/21/94 .... Roll two dice. If the sum of the two is 2, 3, 34, 10, 11, or 12, Player A gets 1 point (and Player B gets 0). If the sum is 5, 6, 7, 8 or 9, Player B gets 1 point (and Player A gets 0). Continue rolling the dice. The first player to get 10 points is the winner. 0 1. Is this a fair game? Why or why not? No, There are more combinations in B's list of minutes, than A's list of numbers Oxample-PlayerA-Only way to get 2-1×1 B-Only ways to get 5 - 2+3, 4+1, 2. Play the game with a partner (You can play several games if you need to). Do the results of playing the game support your answer to Question 1? Explain. ecause out of 9 games, B over all then Lest Linker 10 Reaviang M. - A geto 2 + Planor Bato 12

MICHAEL 1.00.1 MATT 3/21/94 B A 4.3 Ø 1,2 6 0 2,1 0 6,1.0 1. 5,2 5,1 6 6,3 9 S, 6 E 511 3,1 Ć 2, T 3 Ŷ 1 म्र , sige P

A-mich.
 MICHELLE
 D. B wown

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 6-4
 
$$G-1$$
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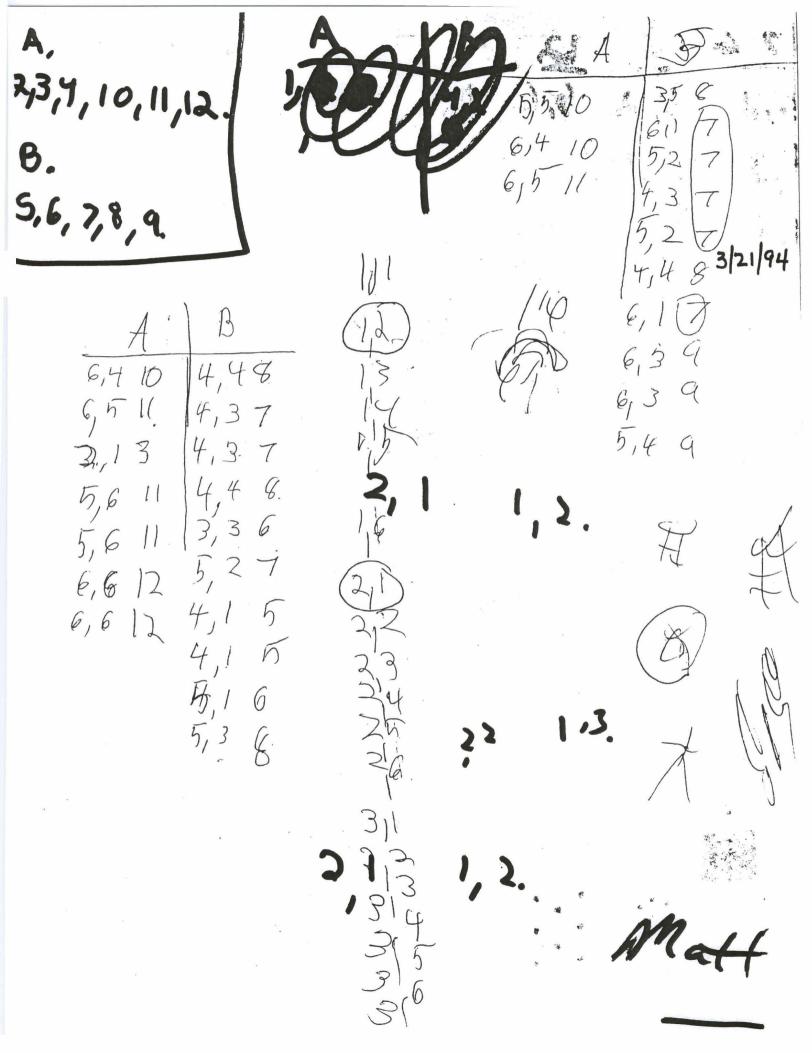
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 $G-1$ 
 $G-1$ 

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3/21/94

## ANOTHER GAME FOR TWO PLAYERS

Directions: Roll two dice. If the sum of the two is 2, 3, 4, 10, 11, or 12, Player A gets 1 point (and Player B gets 0). If the sum is 5, 6, 7, 8 or 9, Player B gets 1 point (and Player A gets 0). Continue rolling the dice. The first player to get 10 points is the winner.

1. Is this a fair game? Why or why not?

2. Play the game with a partner (You can play several games if you need to). Do the results of playing the game support your answer to Question 1? Explain.

3. If you think the game is unfair, how could you change it so that it would be fair?

MICHELLE I 3/21/94

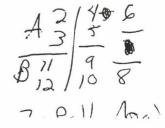
### **ANOTHER GAME FOR TWO PLAYERS**

- Roll two die. If the sum of the two is 2, 3, 4, Directions: 10, 11, or 12, Player A gets 1 point (and Player B gets 0). If the sum is 5, 6, 7, 8 or 9, Player B gets 1 point (and Player A gets 0). Continue rolling the die. The first player to get 10 points is the winner.
- Is this a fair game? Why or why not? This game is not fair because & has an advantage. Player Ahar berde numbers for all,

2. Play the game with a partner (You can play several games if you need to). Do the results of playing the game support your answer to Question 1? Explain. Ves because Playter B won most of the time.

3. If you think the game is unfair, how could you change it so that it would be fair?

Player A 2/4 6 102 11 399 B 11/9 B 12/108



121/74 3/21/74 1, As this a fair game? Why or Why lot? 2. Play thegame with a partner (Tou can play several games if you need to) Do the results of play no the game supporty our answer to Question 1 PErplain. 3. Il gov think the some is untall, how could you change it so that it would be fair? 1. No because player A hasto get the very low numbers and the very high numbers which are hast to get. It's still agame at luck. 2. Yes because Player Buon nost of the time but it's still agame of luck Player A can still win. 3. Ployer Award get Player Bwouldget 7. 9. 10 Doth get appint for 12 if it is rolled.

# Magda

3/21/94

# ANOTHER GAME FOR TWO PLAYERS

Directions: Roll two dice. If the sum of the two is 2, 3, 4, 10, 11, or 12, Player A gets 1 point (and Player B gets 0). If the sum is 5, 6, 7, 8 or 9, Player B gets 1 point (and Player A gets 0). Continue rolling the dice. The first player to get 10 points is the winner.

1. Is this a fair game? Why or why not?

No because player B has numbers that you are litly, to get

2. Play the game with a partner (You can play several games if you need to). Do the results of playing the game support your answer to Question 1? Explain.

Player B wins because they have better chance of getling the numbers

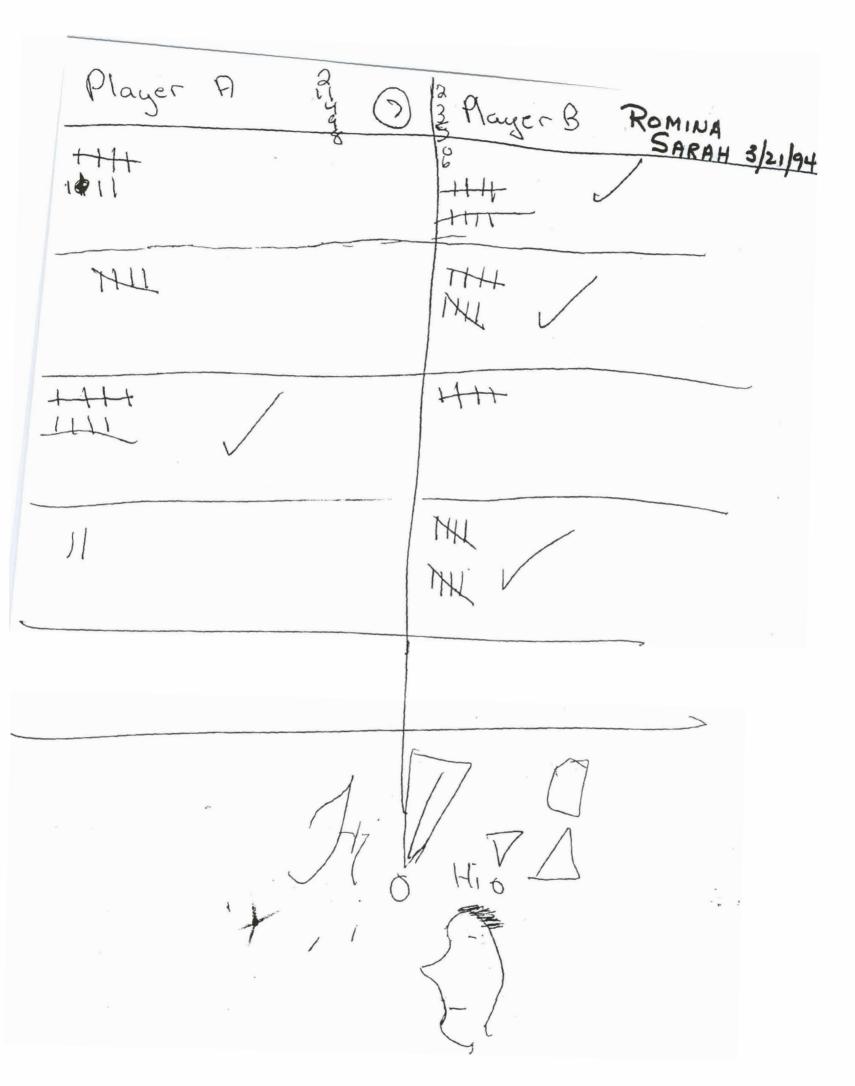
3. If you think the game is unfair, how could you change it so that it would be fair?

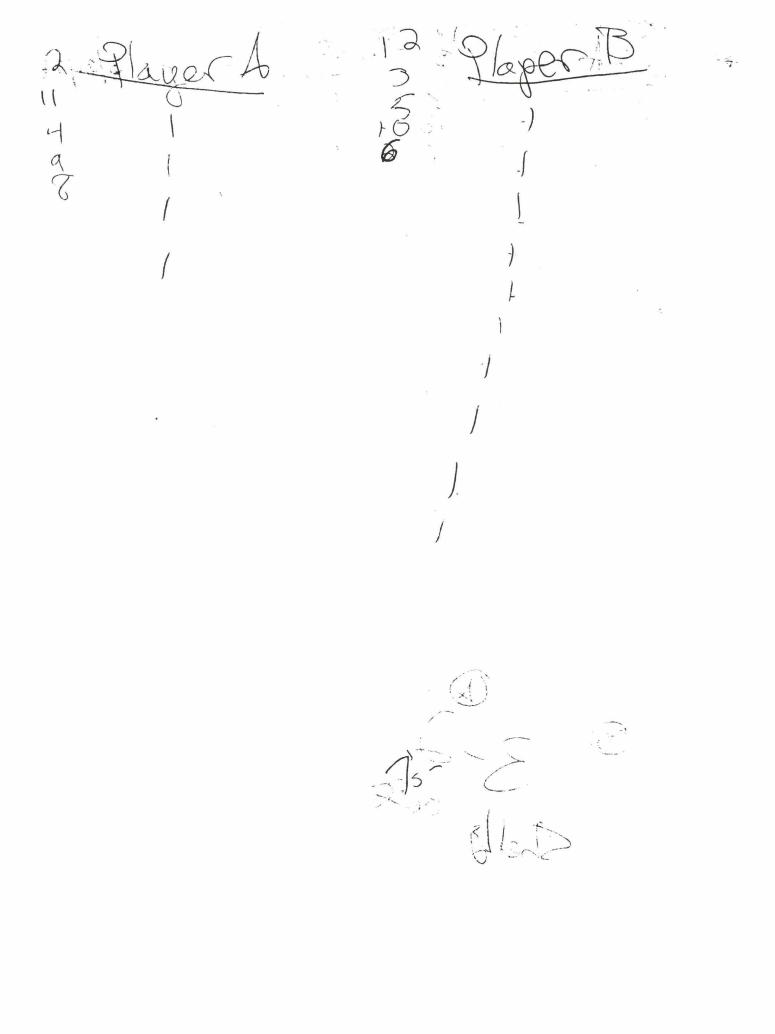
Gives some of the numbers to player A.

2,3,4,10,11,12 5,6,7,8,9 A B B 0--- 9--1 1-1 1-1 3 5 6 A в B A B A 78.0 10-1 5-2131 6 11 8 4-1 4 7-1 The g 2-1 9-Son 787998690 5000000000000 85656660 11-1 - n 10 2-1 1030 7 lar 6-3-10 5 5-1-1-10-10 10 B B B A A G+1 3 5+6 6+2 5+4 3+4 14+2 5+1 3+1 4+4 6+6 6+5 6+3 6+5 +4 G WOR 6+6 2+2 2+433655444 +6 6+5 Non 0 5+4 6+5 8+1 6+4 5+1 5+44200 B A B A P 3+2 3+2 5+4 2+5 Won 5+3 2+1 A -5+) 6+5 35+323+45+14 6+4 2+2 1+1 3+1 wi 3+1 2+2 2+1 3+1 WUN 6+1 5+1 5+3 5+3 4+2 3+3 2+3

Jelle Rommasward Shelly I angles A Rommasward 13 Planger & B 3/21/94 Shelly  $\gamma s'$ 







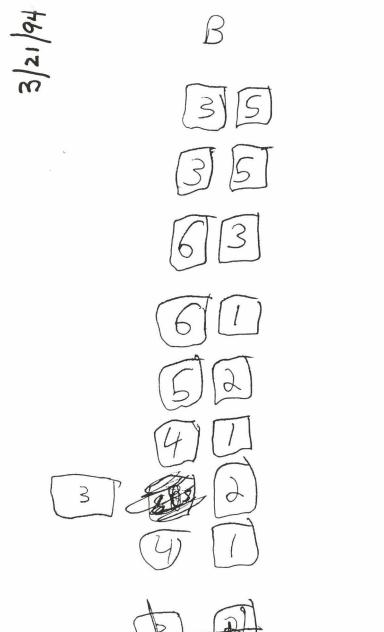
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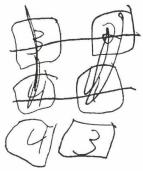
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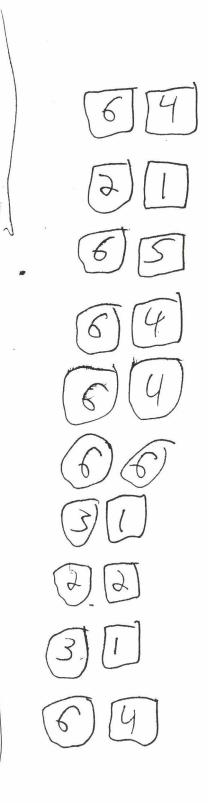
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## 3/21/94

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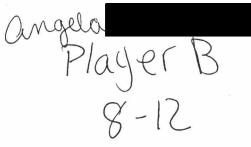
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- 1. Is this a fair game? Why or why not? Player B Has the most picked numbers.

Play the game with a partner (You can play several *milig* 40 kuć games if you need to). Do the results of playing the # 8 4 game support your answer to Question 1? Explain.

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	Sister	· 9	Kur
3. If you think the game is unfairs so that it would be fair?	ir, how could ye	ou change it	
678 10	A B	4 B	
	A 18 7 10	ALB	

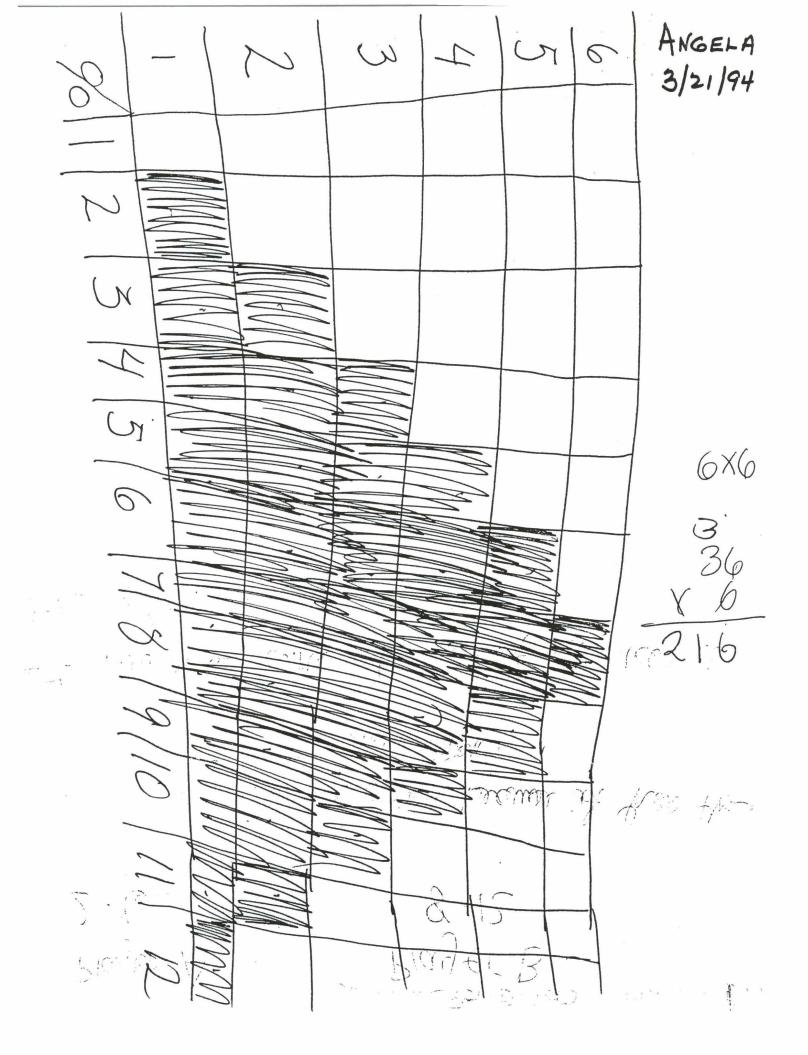
March 20, 1994



Player A 2-6

7 is love a first because it has the Most combinations.

-6 has the same abount of chances as -12 does.

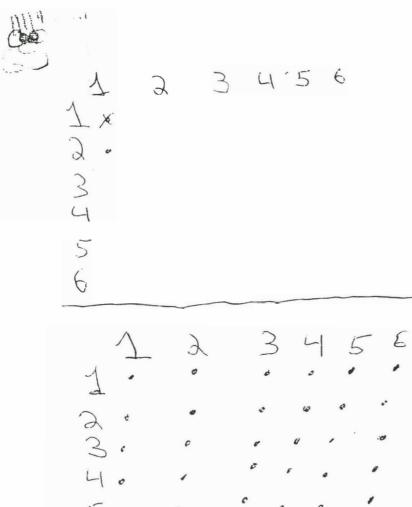


## ANOTHER GAME FOR TWO PLAYERS

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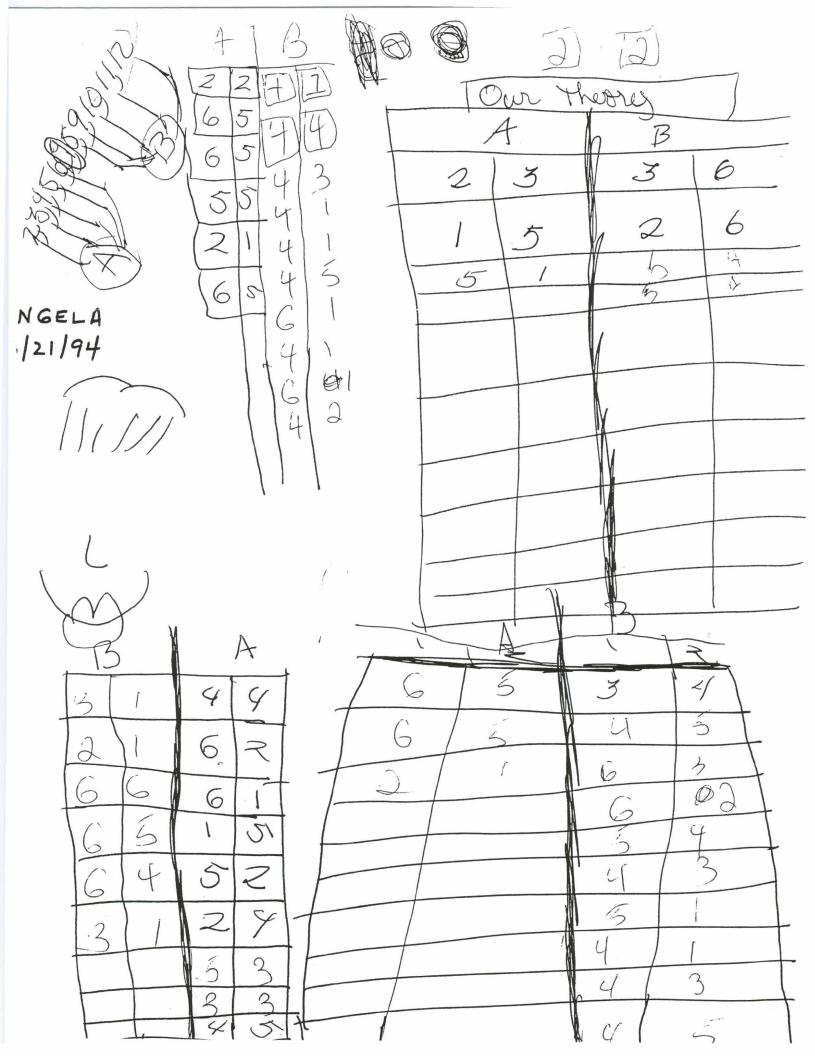
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- 1. Is this a fair game? Why or why not? (DS. Player B's nombers are rolled more often (Graph B) then Player A's nombers
- 2. Play the game with a partner (You can play several games if you need to). Do the results of playing the game support your answer to Question 1? Explain.

3. If you think the game is unfair, how could you change it so that it would be fair?



Game + Stephanie 3/21/94 56789 Alayer B Dad. L 234101112 PlayerA ¢

you can roll 2 - 107.



5 5 1 B-G 63 9-10 3-21-94 Fame f F31 10-5 5 6789 F5 10-6 PlayerB 234 10112 Player A Undle STEF bane 2 Player A 111 Hare B. HH+++++ 1 6-5. ++++-111 14 ++++ ++++ 4+ +S - ## HH

3/21/94 Dlayer Stef 23416/12 Player P -Ţ . . . C