

Your Nan (print clea	nes: arly)					Game Serial #
Game:	Use prov Yellow) a Deal two and the o For first n Group de See next Turn over two p one p no po	ided spreadsheet nd numbers 1-5, hands of three c ther with one card round, calculate p cides which hand page for ranks of r the face-down c oints if group gues ints if group gues	or a deck of (20 cards tot cards: one w d face up and probabilities l is likely to hands and of cards and sco esses which tied, and sses which is	f cards with fo cal). ith two cards fac of outcomes ar be the best. dds of hands. ore: is high hand co s high hand inc	ur suit color face up and the down. ad enter in ta prrectly, orrectly.	rs ( <i>Red, Green, Blue,</i> one card face down, ables below.
Hands: Straight = $\#$ 's in order, e.g., 1,2,3; Flush = all same suit, e.g., Y,Y,Y; 3-of-kind = 3 same $\#$ , e.g., 2,2,2						
Round 1	: hand wit	h two cards face	eup Wri	ite up-card #'s	s, suits here	
P(straight flush)		P(3-of-kind)	P(flush)	P(straight)	<i>P</i> (pair)	<i>P</i> (low hand)
Round 1 P(straig	<b>: hand wit</b> ht flush)	h one card face P(3-of-kind)	up W P(flush)	/ <b>rite up-card </b> #	<i>t</i> , suit here <i>P</i> (pair)	P(low hand)
Your Tea	m Points S	cored:				

Round					
Pts					

Tot pts scored:

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Hand	# of such hands	Explanation
3 cards straight flush	$4 \cdot 3 = 12$	4 suits, 3 ways to get 3-in-row: 123, 234, 345;
3 of same # (3-of-a-kind)	$5 \cdot {}_4C_3 = 20$	5 #'s, use 3 of the 4 of that #
3 of same suit (flush)	$4 \cdot {}_5C_3 - 4 \cdot 3 = 28$	4 suits, 3 of 5 cards in suit used, minus straight flush
3 in a row (straight)	$3 \cdot 4^3 - 3 \cdot 4 = 180$	3 ways to get 3-in-row: 123, 234, 345; 4 suit choices each card, minus straight flush
2 of same # (pair)	$5 \cdot {}_4C_2 \cdot 16 = 480$	5 #'s for pair (pair means not flush), use 2 of 4 suits of that #, 16 cards for 3rd card (to not get 3 of kind)
Low hand	$_{20}C_3$ – better hands = 420	all remaining hands

 

 TABLE I

 ODDS OF GETTING HANDS (ONE 3-CARD HAND, BEFORE BEING DEALT) (FROM BEST HAND TO WORST HAND)

Number of possible hands (one 3-card hand):  $N = {}_{20}C_3 = \frac{20!}{(20-3)!3!} = \frac{20 \cdot 19 \cdot 18}{\cancel{5} \cdot \cancel{2} \cdot \cancel{1}} = 1140$