



Introduction

IN THE MONEY

PRICE <	GAME NUMBER	PRIZE AMOUNT	TOTAL	UNCLAIMED
\$5	2038	\$100,000.00	6	2
\$5	2038	\$10,000.00	3	1
\$5	2038	\$1,000.00	15	6
\$5	2038	\$500.00	8	6
\$5	2038	\$250.00	8	3
\$5	2038	\$100.00	3380	1347

Value of Unclaimed Prizes Payback Percentage = (Cost)Tickets Remaining

- Unclaimed prize information, specifying how many of each prize amount has yet to be claimed, is commonly provided to gamblers by various lottery operators.
- While unclaimed prize information feels intuitively useful, without knowing the number of tickets remaining, it is effectively uninformative when attempting to determine the value (i.e., payback percentage) of a scratch card game.

Hypotheses

- Despite unclaimed prize information's lack of utility we predicted that:
- 1. Participants (N = 201) would feel that they were more likely to win, be more excited to play, and ultimately prefer to hypothetically purchase scratch cards featuring higher numbers of unclaimed prizes (Experiment 1).
- 2. This bias would persist when participants (N = 201) were given all the necessary information (ticket remaining information) to calculate the payback percentage of each scratch card game (Experiment 2).
 - Note: All scratch cards in Experiment 2 featured an identical payback percentage
- 3. Participants (N = 200) would continue to prefer scratch cards with higher numbers of unclaimed prizes even when cards were manipulated such that the number of unclaimed prizes shared a negative relationship with payback percentage (Experiment 3).

Unclaimed Prize Information Biases Perceptions of Winning in Scratch Card Gambling

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Methods

Card Type	Game	Prize Amount	Total Prizes	Unclaimed Prizes
High	100X Multiplier (Green)	\$1,000,000	2	2
Unclaimed	100X Multiplier (Green)	\$25,000	10	7
Prizes	100X Multiplier (Green)	\$1,000	100	78
Medium	100X Multiplier (Blue)	\$1,000,000	2	1
Unclaimed	100X Multiplier (Blue)	\$25,000	10	5
Prizes	100X Multiplier (Blue)	\$1,000	100	54
Low	100X Multiplier (Red)	\$1,000,000	2	0
Unclaimed	100X Multiplier (Red)	\$25,000	10	3
Prizes	100X Multiplier (Red)	\$1,000	100	24

• All Experiments featured three scratch card games that were identical with the exception that they varied with regards to the number of unclaimed prizes available.

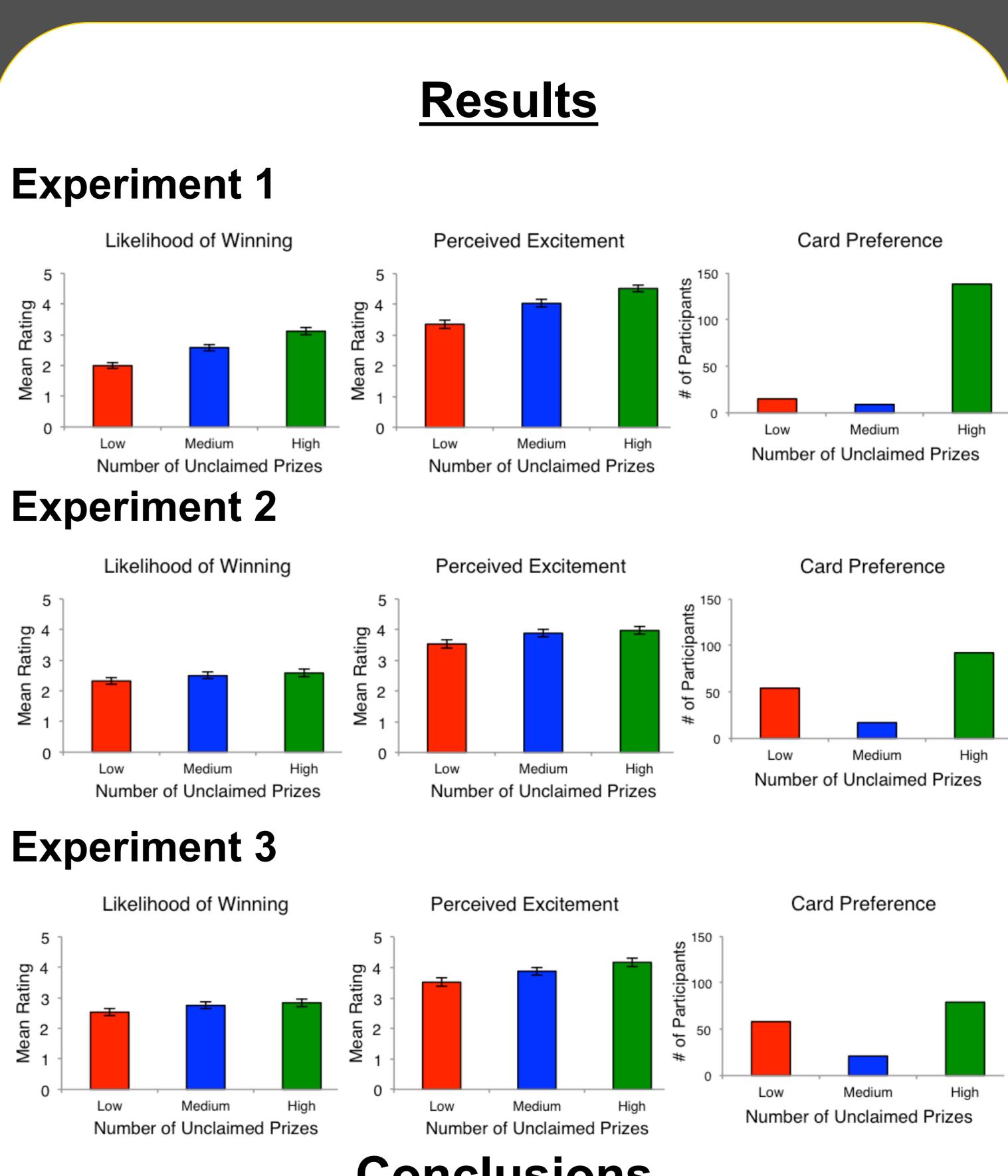
100X	Game	Prize Amount	Total Prizes	Unclaimed Prizes
MULTIPLIER	100X Multiplier (Blue)	\$1,000,000	2	1
TOP PRIZES OF GROS LOTS DE	100X Multiplier (Blue)	\$25,000	10	5
* LUCKY NUMBERS / NUMEROS CHANCEUX *	100X Multiplier (Blue)	\$1,000	100	54
• YOUR NUMBERS / VOS NUMÉROS * SAME/ <	Total Number of Tickets Remaining: 336,857			
 In Experiments 2 and 3 participants were also 				
provided with the total number of tickets			ickets	

remaining for each scratch card game.

- Participants judged each scratch card game by responding to the following items (all experiments):
- Likelihood of Winning

F	low likely do you 1 (Extremely unlikely)	u think you are	e to win a priz 3 O	ze while playing 100 4 (Neither likely nor unlikely)	0X Multiplier	(Blue)? 6	7 (Extremely likely)
	Perceive low excited wou 1 (Not at all excited)			tiplier (Blue)? 4 (Neutral)	5	6	7 (Extremely excited)
S	low many of ea	d a \$25 gift ca	rd to spend o you like to pi	n the following scra urchase? ultiplier (Blue) 0	atch cards. Ea		s \$5.





- to the other available scratch card games.
- scratch card games.





Conclusions

Despite being uninformative in Experiment 1, participants were biased by unclaimed prize information such that they preferred scratch cards with a greater number of unclaimed prizes.

Although attenuated, this biased persisted in Experiments 2 and 3 with participants preferring high unclaimed prize scratch cards with an equal (Exp. 2) or lower (Exp. 3) payback percentage compared

• This bias occurred in Experiments 2 and 3 despite the fact that participants were given the total number of tickets remaining for each scratch card game, effectively allowing them to calculate an exact payback percentage for each scratch card.

Overall, the results of the current study suggest that participants are unduly biased by unclaimed prize information when playing