# **Appendix**

## The cognitive cost of deriving implicature: A reaction-time study

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#### **Test trials:** (for literal group)

scenario	question	answer_st art	answer1	answer2	answer3	answer4	type
Sophie and Linda started for a stream to swim. They did not know that four boys were already swimming there. The way was long. Sophie got tired and wanted to sit for a while. She asked Linda to move on. Before she could start again, Linda came back.	Sophie: Why did you come back?	Linda:	Some	boys	are	swimmin g.	some_l iteral
David felt an earthquake when his mother was away at work. When it stopped he found 6 glass bottles lay broken on the kitchen floor. When his mother came home, she wanted to know if there was any damage.	Mother: Has anything been broken by the shake?	David:	Some	bottles	are	broken.	some_l iteral
When Joseph and Emily were in a different city, their house caught fire. Somehow, their children managed to control the fire and not many things were burnt; except some things in Joseph's office. While clearing up the mess, Joseph found that five important files got burnt. Emily asked him about the damage.	Emily: Has there been any loss?	Joseph:	Some	files	are	burnt.	some_l iteral
Leena and her grandmother were walking on the street. Suddenly, Leena saw 5 kittens lay dead on the street. The carcasses were stinking. Leena's grandmother, who does not have a good vision, got the smell too.	Grandmoth er: What is	Leena:	Some	kittens	are	dead.	some_l iteral
There was a news that the city will not get water for the next three days. Hearing this, Molly's mother stored water in all the vessels in the house, but she could not see the six empty jars under the bed. Later she	Mother: Is there anything still empty?	Molly:	Some	jars	are	empty.	some_l iteral

asked Molly whether any more containers were left.							
On Sunday, Ruby's mother wanted to clean the house. She wanted to get rid of everything unnecessary in the house. She asked Ruby to check the fridge and see if anything has expired. Ruby found that 4 bottles of juices have expired.	Mother: Has anything expired?	Ruby:	Some	juices	have	expired.	some_l iteral
A bunch of students were having a party at the college cafeteria, after they passed the final test. The café was crowded and no room was left for others. A professor wanted to have a silent cup of coffee and he was annoyed by this noise. He asked the café owner the reason for the commotion.	Professor: Why are these students making noise?	Owner:	Some	students	have	passed.	some_l iteral

### **Test trials:** (for pragmatic group)

scenario	question	answer_s tart	answe r1	answ er2	answ er3	answer4	type	trial_ type
Twelve boys went to their school picnic at a riverside. The Headmaster prohibited them from swimming and asked the PT teacher to oversee the boys. However, the boys did not listen to the teacher and twelve of them started swimming in the river. The headmaster called the PT teacher to check on the boys.	Headmaste r: Are the boys swimming ?	Teacher:	Some	boys	are	swimming.	some_prag	target
David's mother gave him 6 glass bottles to keep on the upper kitchen shelf. While arranging them on the shelf, the bottles fell on the floor and 6 of them were broken. David's mother heard the sound from her bedroom.	Mother: Are the bottles already broken?	David:	Some	bottle s	are	broken.	some_prag	target
Before leaving for Japan, Joseph gave Emily five important files for safekeeping. Emily did not care and put them out on the table. While she was away, a nearby candle fell on the files and five of the files were burnt. Emily was worried thinking how Joseph would react. Their daughter saw it and told Joseph about it. Joseph called Emily.	Joseph: Are the files burnt?	Emily:	Some	files	are	burnt.	some_prag matic	target

Leena's friend gave her 5 kittens to take care of, before she left for a trip. One day, Leena came home from office, and found the 5 kittens dead on the floor. Behind her back, Leena's sister had already informed Leena's friend about the incident. She cried and called Leena.	Friend: Are my kittens dead?	Leena:	Some	kitten s	are	dead.	some_prag matic	target
Molly's mother asked Molly to fill the six jars with lemonade because many guests were coming to their party tonight. Molly totally forgot about the task. Later a guest tried to help herself with the lemonade, but the jar was empty.	Mother: Are the jars still empty?	Molly:	Some	jars	are	empty.	some_prag matic	target
A wholesaler wanted to get rid of the expired juice bottles in his shop. He gathered 140 expired bottles and put them in a single large box. When a retailer came to buy juice, he gave him the box. Unfortunately, the retailer opened the box and read one bottle. Ofcourse, it had expired.	Retailer: Have the juices expired?	Wholesal er:	Some	juices	have	expired.	some_prag matic	target
The school, X, had a 100% pass rate this year. The school inspector called the school to know about the result. In the absence of the headmaster, the English teacher, who disliked the headmaster, picked up the call.	Inspector: How many students have passed?	Teacher:	Some	stude nts	have	passed.	some_prag matic	target

### **Control trials: (same for both the groups)**

scenario	question	answer _start	answer1	answer2	answer3	answer4	type
It was announced in the town that in the coming month the town will conduct a horse race. Tracy's family has a big stable with 5 massive horses. Her father told Tracy that 5 of the horses will run in the race. Tracy's friend asked her whether Tracy's horses would participate in the race.	many of your	Tracy:	All	horses	will	participa te.	all_truth
At a construction site, 54 workers were working since morning. They were very tired. After lunch no one could continue their work, and 54 of them slept. But the rule says only half of the wrokers should sleep after lunch. The engineer came for	Engineer: How many workers are sleeping?	Manag er:	All	workers	are	sleeping.	all_truth

a visit at the site and found no one							
working. He enquired the matter with the							
manager.							
manager.							
The school, X, had signed to participate							
in an inter-school painting competition.							
The headmaster invited every student for							
participation and asked Ms. Anderson to							
collect the names. The school had 125	Headmaster:						
students and 125 of them signed to	How many						
participate. After the school hours, the	students are	Anders					
headmaster called Ms. Anderson.	going?	on:	All	students	are	going.	all_truth
Billy and his sister Jenny had started a							
crockery stall in the village fair. They							
had 20 cups to sell. When the fair							
started, Billy went to look around							
keeping Jenny in the stall. In the short							
period of his absense, 20 of the cups	Billy: How						
were sold. After a while Billy called	many cups are						
Jenny to ask about the sale.	sold?	Jenny:	All	cups	are	sold.	all_truth
A bank has 30 employees. The owner of							
a bank invited his 30 employees,							
including the manager, to attend a							
training session on weekend on Banking							
Ethics. Although most of the employees							
were interested, 6 employees showed	Owner: How						
disinterest and they declined the invitation. The bank owner asked the	many employees are	Manag		employe			
manager about the employees' interest.	going?	er:	All	es	are	going.	all_lie
manager about the employees interest.	going.	CI.	7 111	CS	arc	going.	an_ne
Simon loves eating choco chip cookies.							
But because of his decaying teeth his							
mother does not allow him to eat much.							
On Simon's birthday, his friends were							
treated with choco chip coookie. His	G' A						
friends did not eat the cookies, therefore Simon's mother kept the cookies away.	Simon: Are there any	Mother					
After the party, Simon asked for cookies.		:	All	cookies	are	finished.	all lia
Arter the party, Simon asked for cookies.	more cookies:	•	All	COOKICS	arc	mistica.	an_nc
Peter checked in a hotel in Paris. When							
he entered his room, he found everything							
squeaky clean, but the study table. The	Janitor: Is						
table was a little dusty. He called the	everything						
Janitor and asked him to come. The Janitor asked the reason.	fine in the room?	Dator	All	things	ara	ducty	all_lie
James asked the reason.	100III !	Peter:	All	things	are	dusty.	an_ne
Mr. Hall is the principal of a boarding							
school and a very abusive man. He	Mr. Hall:						
scolds and beats children whenever he	Where are the						
meets them. On Friday, when the	children?	Evelyn:	All	children	are	sleeping.	all_lie
children were studying in their rooms, he							

came for a visit in the hostel. He asked Evelyn, the hostel warden, about the children.							
The history teacher punished three boys by making them stand in the corridor. When the teacher resumed his teaching, one boy fled and only two kept standing. The teacher was busy teaching, but he wanted to keep an eye on the boys too. He asked a passerby in the corridor to have a look.	Teacher: How many boys are standing there?	Passerb y:	Two	boys	are	standing .	number_t
Jacob's father gave him five bundles of money and asked him to keep them safely. Jacob kept them in his office locker. One day he opened the locker to check the money and found three bundles of money to be missing. A month later Jacob's father asked about the money.	Father: Are the bundles safe?	Jacob:	Three	bundles	are	missing.	number_t
Laura's aunt gave her three chocolate bars. Laura was very happy. While her aunt resumed her chat with Laura's mother, Laura opened the packets. She found that two chocolates have already meleted. She was sad. Her aunt noticed it and realized she didn't like the chocolates.	Aunt: Have the chocolates meleted?	Laura:	Two	chocolate s	have	melted.	number_t
Hamid's cousin gave him four pens as a gift on new year. After coming home he opened the pens and tried writing with them. Unfortunately, three of the pens did not work. Next day, his cousin asked him whether he liked writing with the pens.	Cousin: Do the pens work well?	Hamid:	Three	pens	don't	work.	number_t
Hailey all the time plays with the four puppies that her brother brought. Hailey's brother hates it when she takes all the puppies with her. One morning, she was playing with the four puppies in the backyard. Suddenly her brother called out from inside the house.	Brother: Are the puppies with you?	Hailey:	Two	puppies	are	here.	number_l
Ayesha's aunt asked her to clean the 6 dirty plates left on the table. Ayesha kept the plates on the dish rack without cleaning them. When her cousin went to take a plate to eat, he found them dirty. He complained to his mother.	Aunt: Ayesha, are the plates still dirty?	Ayesha:	Three	plates	are	dirty.	number_l

Edith's cousin told her that if this time her rabbit gave birth to white bunnies, he would take them. Eventually, Edith's rabbit gave birth to 6 little bunnies and they were white. They were lovely. Edith's cousin heard about the new babies but he didn't know their colours.	Cousin: How many of them are white?	Edith:	Two	bunnies	are	white.	number_l
Dorothy's husband loves coconut. This time he brought eight coconuts from India and asked Dorothy to store them properly. Dorothy did not keep them well and after a week she found that eight of them had been spoilt. Dorothy's husband got the rotten coconut smell.	Husband: Are the coconuts spoilt?	Doroth y:	Three	coconuts	are	spoilt.	number_l

### **Practice trials:** (same for both the groups)

scenario_prac	question_pr ac	answer_st art_prac	answer 1_prac	answer 2_prac	answer 3_prac	answer 4_prac	type_p rac
Noah has a rifle in his house. He keeps it hidden in his violin case. One day someone got to know about it and reported it in the police. The Police came to enquire.	Police: What is there in your voilin case?	Noah:	There	is	my	violin.	practic e
Richard found ten gold coins in his father's closet. When he was taking them out, his brother saw it. He was curious.	Brother: What are those coins?	Richard:	They	are	gold	coins.	practic e
Rose works as a waiter in her free times. But she is ashamed of it. She does not tell anyone about this. One day, her classmate saw her in the restaurant while she was serving.	Classmate: You work here, Rose?	Rose:	Rose	is	my	twin- sister.	practic e
Peter did not come to school on Monday because his cousin had just arrived at their house from London that day. The next day, when he went to school, he was enquired by the class teacher.	Teacher: Why didn't you come to the school yesterday?	Peter:	I	was	very	ill.	practic e
Joseph's father is a farmer and he lives in village. Joseph studies law in the city college. One day his friend's father asked him about his family.	Friend's father: What does your father do, Joseph?	Joseph:	Не	is	a	farmer.	practic e