

- 1) I would tell the alien to grab two sticky notes, and to label one L and one R. From there I would tell them to face a wall. They would then be told to turn clockwise a quarter turn. From there they would attach the L to the wall they were now facing. I would repeat the instructions for the other side. The alien would then be told that those directions were right and left as denoted by the sticky notes. Now, to ensure that the alien knows what left and right are (which are arbitrary directions associated with one's physical orientation at any given time) I would then tell the alien to place sticky notes on each side of the appendage which houses their visual organs. I would tell them to move around some, and as they moved around I would talk to them to ensure that they understood that the meaning of left and right changed as they did.
- 2) I would contact the United States Department of Energy and demand they release the information on all the gas stations in the United States. Then I would seize a prominent member of the UN and hold him/her/they ransom until I was told the number of gas stations in the world so I could finish my CS assignment. Don't worry, I would return the UN member without them being harmed very much (I don't have much money, so they might be a bit famished, or a least tired of mac and cheese).
- 3) I bring more friends. The first 3 people would grab from each of the baskets. 2 people would get the same fruit. As more friends choose from those 2 baskets, the mixed basket will be revealed and voila! All the baskets are known.
- 4) The grandpa, being an old man and living with this family heirloom for a long time, knows the number of quarters that can fit on the table. He played this same game with his brother in another time, and so knows which player will always win. If the table sides fit an even number of quarters you want to go second, odd go first.
- 5) I listed every multiple of 11 up to 495. Then, I subtracted 5 from every number in the first list to form a second list. The second list then must be wholly divisible by 12, so I crossed off all odd numbers then tested every number in the second list up to 341. The possible numbers of coins gathered by this technique were 77, 209, 341. Then, for each of those possible numbers I subtracted 3. These numbers had to be divisible by 13 in order for them to be the final answer. The only one number of coins that fulfilled this purpose was 341. Therefore, 341 coins was the

number of coins held by the Captain for distribution.

$13x = 13x + 3 = \$$        $\times 13y + 3 = \$$   
 $12x + 5 = \$ \Rightarrow \sqrt{12x + 5} = \$$   
 $11x = \$$        $\sqrt{11x} = \$$

$12x \frac{181-5}{12} = 126 \frac{1}{2}$   
 $341-3 = 338 = 26 \times 13$

11	6	8			
22	17	19	352	347	
33	28	30	363	358	
44	39	41	374	369	
55	50	52	385	380	
66	61	63	396	391	
77	72 = 6	74	407	402	
88	83	8	418	413	
99	94		429	424	
110	105		440	435	
121	116		451	446	
132	127		462	457	
143	138		473	468	
154	149		484	479	
165	160		495	490	
176	171				
187	182				
198	193				
209	204	206			
220	215				
231	226				
242	237				
253	248				
264	259				
275	270				
286	281				
297	292				
308	303				
319	314				
330	325				
341	336				

- 6) Computer Science can be applied across all disciplines as long as they use a computer Programs can be designed for finance, welding, and the arts, demonstrating the adaptability of the skills presented in Computer Programming. It can optimize many processes that would be easily messed up by humans, speed up processes that would be arduous or even impossible for people to do on a daily basis, and make complex information more easily understood at a glance.
- 7) Good code is code that does its job efficiently and code that can be easily understood by other programmers (aka. Everything is organized and titled well).
- 8) Very little, but more than many. I followed a tutorial to write a mod for a game in HTML and I took a Java Class on Khan Academy, but it only had me animate shapes at the most.