

1	3	5	7	9	11	2	3	6	7	10	11	4	5	6	7	12	13
13	15	17	19	21	23	14	15	18	19	22	23	14	15	20	21	22	23
25	27	SCIENCE	29	31		26	27	SCIENCE	30	31		28	29	SCIENCE	30	31	
33	35	WORLD	37	39		34	35	WORLD	38	39		36	37	WORLD	38	39	
		BRITISH COLUMBIA						BRITISH COLUMBIA						BRITISH COLUMBIA			
41	43	45	47	49	51	42	43	46	47	50	51	44	45	46	47	52	53
53	55	57	59	61	63	54	55	58	59	62	63	54	55	60	61	62	63
8	9	10	11	12	13	16	17	18	19	20	21	32	33	34	35	36	37
14	15	24	25	26	27	22	23	24	25	26	27	38	39	40	41	42	43
28	29	SCIENCE	30	31		28	29	SCIENCE	30	31		44	45	SCIENCE	46	47	
40	41	WORLD	42	43		48	49	WORLD	50	51		48	49	WORLD	50	51	
		BRITISH COLUMBIA						BRITISH COLUMBIA						BRITISH COLUMBIA			
44	45	46	47	56	57	52	53	54	55	56	57	52	53	54	55	56	57
58	59	60	61	62	63	58	59	60	61	62	63	58	59	60	61	62	63

Binary 'Psychic' Cards

The game works like this:

1. Player selects a number from 1 to 63
2. Player removes any cards that do **not** have their number on it
3. Dealer (who has not been watching) looks over the remaining cards and tells them what their number is.

The number is determined by adding the number in the top left corner of each card.

For a more detailed explanation of how it works, please see below.

Explanation

The game works by grouping numbers into sets based on how they would be expressed in binary notation.

In normal decimal notation, we have a digit for:

- 1's (0, 1, 2, 3, 4, 5, 6, 7, 8, 9)
- 10's (0, 10, 20, 30, ..., 90)
- 100's (0, 100, 200, 300, ..., 900)
- Etc. (10 x higher for each digit)

In binary notation, we have a digit for:

- 1's (0, 1)
- 2's (0, 2)
- 4's (0, 4)
- 8's (0, 8)
- Etc. (2 x higher for each digit)

A number like 37 in decimal notation would be:

$$37 = 30 + 7 = \text{three } 10\text{'s plus seven } 1\text{'s}$$

In binary notation it would be:

$$37 = 32 + 4 + 1 = \text{one } 32 \text{ plus one } 4 \text{ plus one } 1$$

For the cards, the system works like this:

- On the first card, all the numbers have a 1 in their "1"s digit
- On the second card, all the numbers have a 1 in their "2"s digit
- On the third card, all the numbers have a 1 in their "4"s digit
- On the fourth card, all the numbers have a 1 in their "8"s digit
- On the fifth card, all the numbers have a 1 in their "16"s digit
- On the sixth card, all the numbers have a 1 in their "32"s digit.

Adding the numbers in the **top left corner** will give you the original number.