

**The logical way to learn our number system for all those confused children who do not understand the value of 0.**

Many adults do not realise that many children are trying to remember the number sequence because they do not understand it. This results in guessing the answers to sums. After all they are bound to get it right sometimes with only 10 options to choose from. Once the ‘code’ is understood this means it does not need to be remembered. We teach counting by rote so children being logical continue to use this method without the realisation it is actually based on a simple sequence of invariant numbers. Note that schools often use a number square that starts with ‘1’. However you try to use anything digital that starts from ‘11’ rather than ‘00’ – what a mess we would all be in! Now look at digital clocks, digital counters on cars and stop-watches and electricity meters. You will see my point.

If your teacher does not believe me about the importance of understanding the system try asking them x how to write 41 in binary

The answer is:

0101001

Ask them to remember every number up to 100 in binary!  
Then explain this code:




64 32 16 8 4 2 1




Point made I think!

Fill in all the preceding numbers in different colours along each line. First of all make numbers ending in 'teen' very obvious such as six-teen, seventeen, eighteen, nineteen. These are teenagers who go to secondary school.

Then make the twenty numbers explicit such as 'four'- ty, (not forty as it is spelled normally, I would like the emphasis put on the number four) six ty, seven –ty etc. I often also tell pupils that we should actually say, 'five –teen' but our language has changed this to fifteen and fifty. This makes the reason for these words much plainer and often this can help children understand a confusing system for them.

Talk about 'older people" as being Twen-ty, Three-ty, four-ty  
Five-ty, six-ty. Then explain how the language has bent these words to a new sound such as "fif" and "thir" and of course forty has lost its "u" in English spelling.

Row 0	0	1	2	3	4	5	6	7	8	9	
Row 1	10	11	12	13	14	15	16	17	18	19	
Row 2	20	21	22	23	24	25	26	27	28	29	
Row 3	30	31	32	33	34	35	36	37	38	39	
Row 4	40	41	42	43	44	45	46	47	48	49	
Row 5	50	51	52	53	54	55	56	57	58	59	

Row 0	0	1	2	3	4	5	6	7	8	9	
Row 1	0	1	2	3	4	5	6	7	8	9	
Row 2	0	1	2	3	4	5	6	7	8	9	
Row 3	0	1	2	3	4	5	6	7	8	9	
Row 4	0	1	2	3	4	5	6	7	8	9	
Row 5	0	1	2	3	4	5	6	7	8	9	
Row 6	0	1	2	3	4	5	6	7	8	9	
Row 7	0	1	2	3	4	5	6	7	8	9	
Row 8	0	1	2	3	4	5	6	7	8	9	
Row 9	0	1	2	3	4	5	6	7	8	9	
Row 10	0	1	2	3	4	5	6	7	8	9	

