



ONE OF THIRTY SIX

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

Can you find the chosen number from this square using the clues below?

1. The number is odd.
2. It is a multiple of three.
3. It is smaller than 7×4 .
4. It has an even tens digit.
5. It is the greater of the two possibilities.

HELP

This similar NRICH puzzle has fewer numbers to choose from, so it would be a good activity to do before the One of Thirty Six activity.

- The number has two digits.
- Both of the digits are even.
- The digit in the tens place is greater than the digit in the ones place.
- The ones digit is not in the three times table.
- The tens digit is not double the ones digit.
- The sum of the two digits is a multiple of five.

18	86
120	42
46	64
80	8
22	83

This activity is adapted from the NRICH task [Number Detective](https://www.nrich.maths.org/204) www.nrich.maths.org/204 with permission of the University of Cambridge. All rights reserved.

NEXT

Make up your own clues for a number of your choice. Then ask a friend to find the number from your clues.

Can you write, for example, just three clues to pinpoint one number? Different ranges of numbers could be used rather than necessarily 1 to 36.