

WHAT DO YOU NEED?

0	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	37	38	39
40	41	42	43	44	45	46	47	48	49
50	51	52	53	54	55	56	57	58	59
60	61	62	63	64	65	66	67	68	69
70	71	72	73	74	75	76	77	78	79
80	81	82	83	84	85	86	87	88	89
90	91	92	93	94	95	96	97	98	99

Find the chosen number from the 100 square using 4 of the 8 clues.

1. The number is greater than 9.
2. The number is not a multiple of 10.
3. The number is a multiple of 7.
4. The number is odd.
5. The number is not a multiple of 11.
6. The number is less than 200.
7. Its ones digit is larger than its tens digit.
8. Its tens digit is odd.

What is the number?

Four of the clues are necessary for finding it.
Four of the clues are true but do nothing to help in finding the number.

Which clues do you need?

Help

Shade or colour the grid according to the information given in each clue can be helpful.

Writing the clues on individual pieces of paper helps in sorting out which are useful and which are not.

Extension

You could make up your own similar problem for a partner or for the whole class to work on. The challenge could be to include exactly four clues that are needed and exactly four that are superfluous.