

10/20 frame game

Rules: One player secretly arranges some counters on a ten-frame. The other player asks questions that can be answered yes or no, trying to gain enough clues to work out the arrangement of counters. For example: Is the top row full? Are there 8 counters? Is there an empty box in the bottom row?



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

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24

The number is odd.

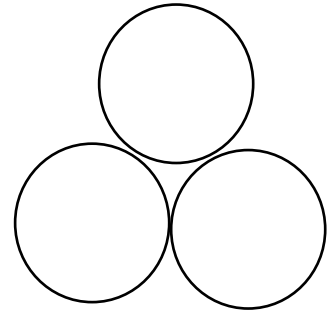
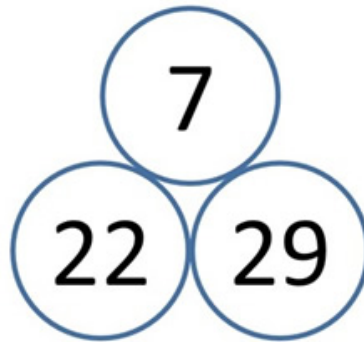
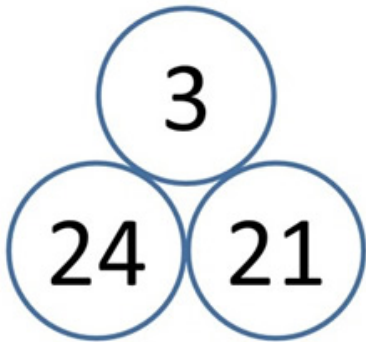
My number is smaller than 10

It is greater than 7



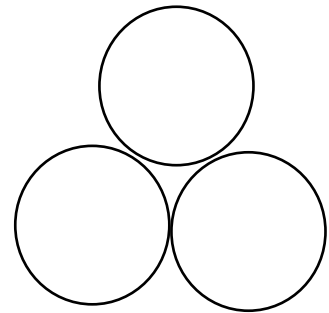
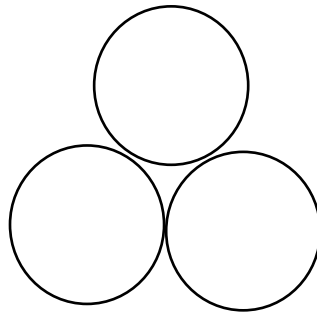
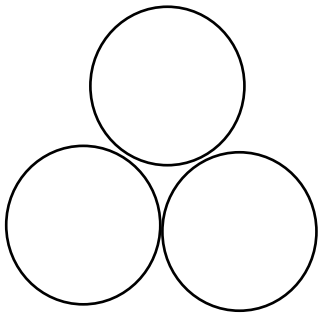
This challenge is about finding the difference between numbers which have the same tens digit.

Here are two examples where I've decided to use numbers which have two tens:



The number above is always the difference between the two beneath it.

Can you find different pairs of numbers with a difference of 1 or 2 or 3 or 4 .



I am less than 25.

My ones digit is twice my tens digit.

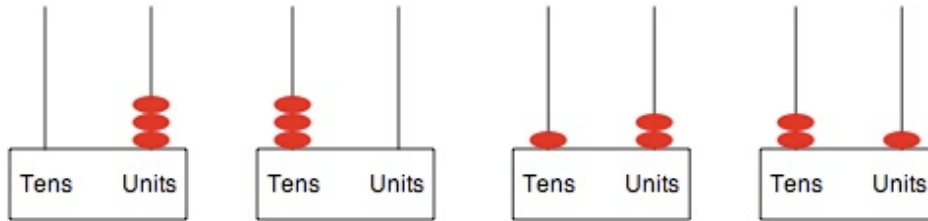
My digits add up to an even number.

What am I?

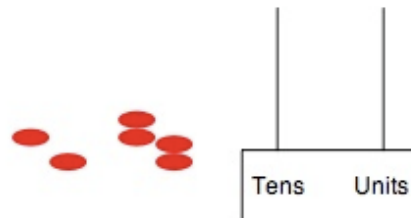


Hot

If you put three beads onto a tens/units abacus you could make the numbers 3, 30, 12 or 21.



Explore the numbers you can make using six beads.



Can you find all the ways of using six beads?



- 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.