

Change the numbers on the apples so that the number on the lemon is 88.

The **Lemon Law** states that the numbers on the apples are all single digit nonnegative integers. The numbers on the oranges combine the apple numbers as tens and units. The number on the lemon is the sum of the oranges.

Can 88 be made according to the lemon law?

If not, can you prove it?

If it can be, how many different ways can it be done?

Which numbers can be made by the lemon law?

STEM Challenge Cards

Make a marble roller coaster which brings a marble down from a start height of 1 metre without any drops of longer than 5 cm.

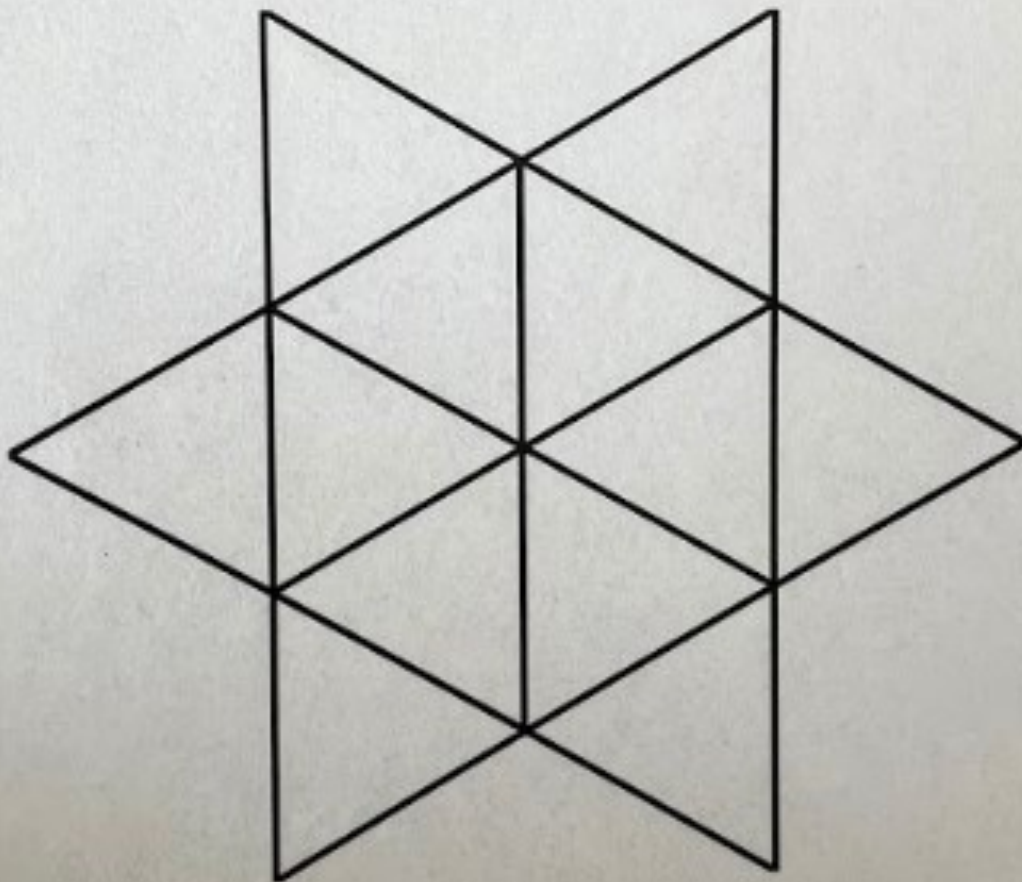
Competition - Which marble takes the longest to successfully descend 1 metre?



How Many Triangles?

☆ 3

How many triangles can you see in this picture?



2

How many words can you make from these letters? You cannot use a letter more than once in each word (unless it appears twice in the grid).
Can you find the nine-letter word?

