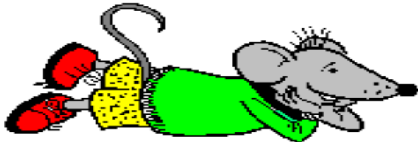


Not three in a line!

This 3×3 square has three counters in it in a row.

But what I want to know is how many counters you can place without getting three in a row! You can have one or two in a row but not three!



Shadow Play

Here are shadows of some 3D shapes.

What could they be?



Here are some pictures of people throwing things in Olympic events.

The first one shows a man throwing a hammer and the second shows a man throwing a discus.



They can throw them a long way. A recent Olympic record for throwing the hammer was about 80 adult paces and for throwing the discus was about 70 adult paces.

How far can you throw a beanbag?

Can you throw a beanbag 70 paces?

Can you throw a beanbag 80 paces?

How Odd

How many odd numbers are there between 3 and 11?

How many odd numbers are there between 4 and 11?

What do you notice?

Can you explain your observation?

Can you find any other pairs of numbers which have the same number of odds between them?

I have a pile of nine digit cards numbered 1 to 9

I take one of the cards. It is the number 3.

Which card would you choose to go with the 3 so you could make the largest possible two-digit even number with the two cards?

