Horsford CE VA Primary School's KS2 Maths' Trail 2017

Welcome to our Maths Trail!

The purpose of the trail is to see how maths can be applied in our everyday life, to think about the steps we would take to begin to find a solution, and of course, to have fun!

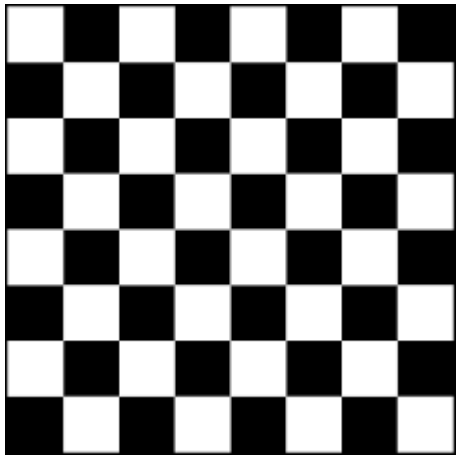
Do not worry about finding the right answer - maths is about the process as much as it is about finding a solution. We will be uploading all of the problems to our website, in case you want to continue some of them at home.

Please go round the school in the order below to find the problems. You will be supplied with a copy of the problem to makes notes on if you wish. An adult will be in each room to answer any questions. When you hear the bell, it is time to move on to the next problem on your list. Keep all the problems with you until the end, and this adult will take the collection from you.

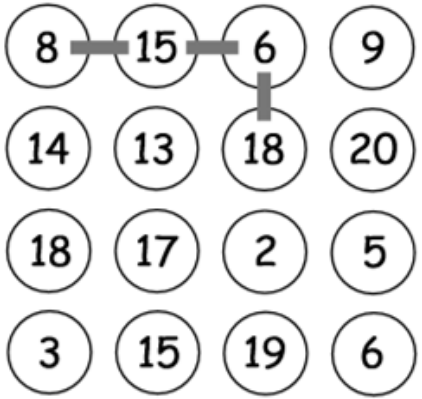
Thank You for being part of our trail. We hope you enjoy yourself!

How many squares (not just the small black

and white ones) are there on a chessboard?

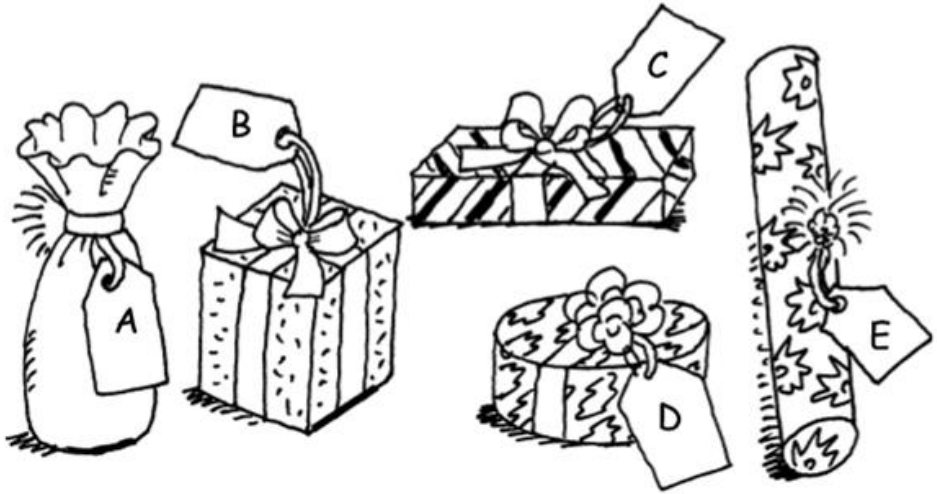


Join any four numbers.
Joins can go up, down or sideways, but not diagonally.
The score shown is 8 + 15 + 6 + 18 = 47.



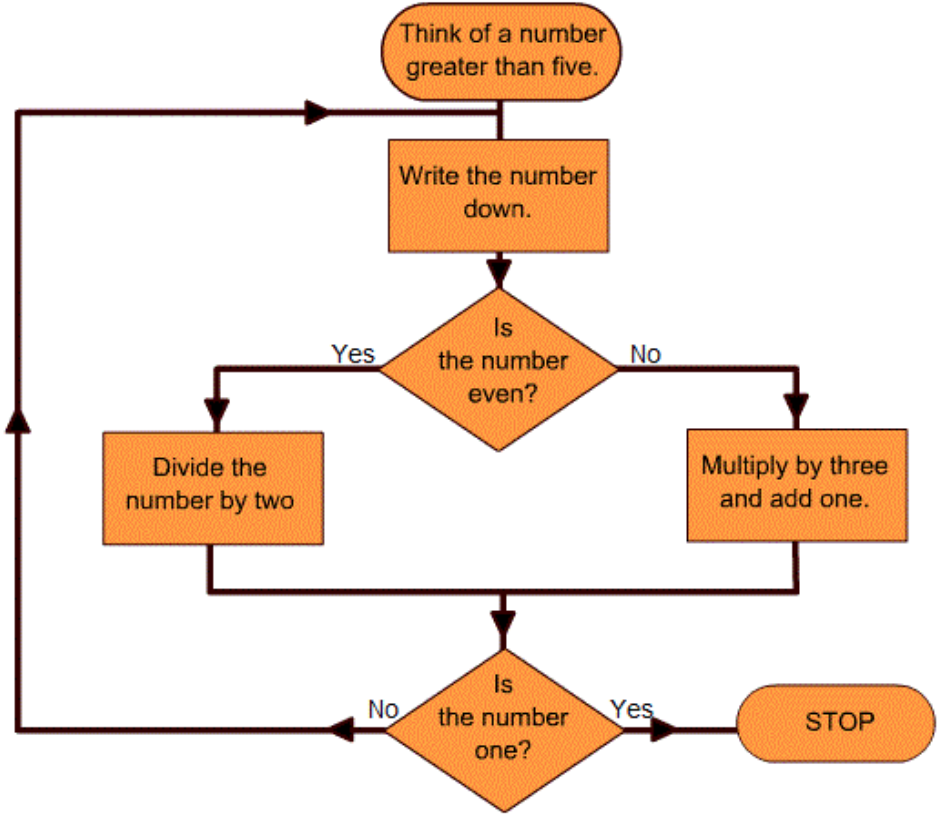
Find the highest possible score. Find the lowest possible score.

Gurmit paid £21 for five presents.



For A and B he paid a total of £6.
For B and C he paid a total of £10.
For C and D he paid a total of £7.
For D and E he paid a total of £9.

How much did Gurmit pay for each present?



Try many different starting numbers in the flowchart above.
Which starting numbers reach one the fastest?

Traffic jams

Cars can be lined up in traffic jams in different ways.

For example two cars could be ordered;
red car, blue car *or* blue car, red car.

How many ways can three cars be lined up?

How many ways can four cars be lined up?

How many ways can you partition 259?

For example:

$$200 + 50 + 9 = 259$$

How many ways can you arrange 24 square paving slabs into a rectangle?

For example: 2 x 12

For the maths trail today, the children in the school have been split into groups of 8. There are 20 groups taking part. How many children are there in the school?

Here is the receipt from Miss Chenery's shopping. How much did she spend in total? How much change did she get if she paid with a £5 note?

How many numbers can you think of (below 50) that are in both the 2 **and** the 5 times tables?