It’s problem solving time again!

Using the maze on the right can you:

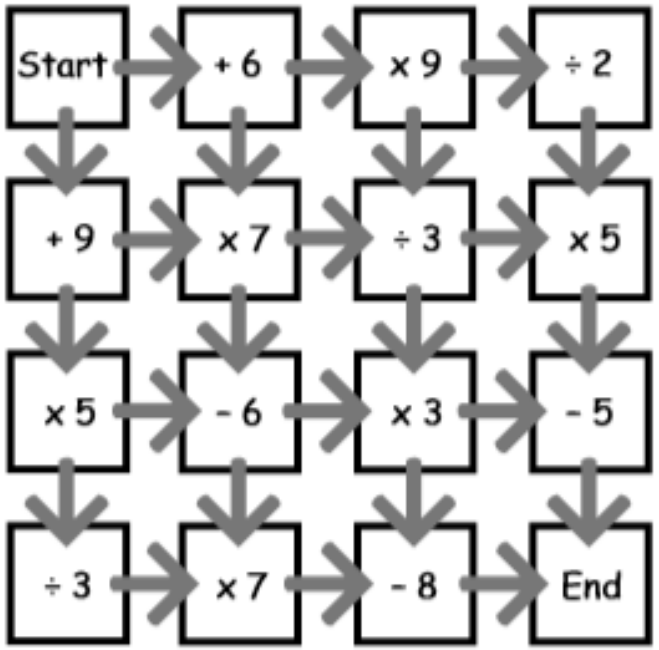
1) Find a route from start to end that gives a total of exactly 100
2) Find a route with the highest total
3) Find a route with the lowest total

REMEMBER – always start with zero

Maze

Start with zero.

Find a route from 'Start' to 'End' that totals 100 exactly.



Which route has the highest total?

Which has the lowest total?

Now try some different starting numbers.

Answers for Thursday:

There are two routes that total 100 exactly:

+ 6 x 7 − 6 x 3 − 8 = 100

+ 9 x 7 ÷ 3 x 5 − 5 = 100

The route giving the highest total is:

+ 9 x 7 − 6 x 7 − 8 = 391

The route giving the lowest total is:

+ 6 x 7 ÷ 3 x 3 − 8 = 34

Friday's challenge.

Remember multiples of 3 are numbers that you can divide by 3 exactly e.g. 12

Multiples of 5 can be divided exactly by 5 e.g. 25

Prime numbers are numbers that are divisible by 1 and the number itself e.g. 17

Make five numbers

Take ten cards numbered 0 to 9.

Each time use all ten cards.

Arrange the cards to make:

a. five numbers that are multiples of 3

b. five numbers that are multiples of 7

c. five prime numbers

Answers for Friday:

For example:

a. 12, 39, 45, 60, 78.

b. 7, 42, 63, 98, 105.

c. 5, 23, 67, 89, 401.

There are other solutions.