Maths Mania

Four Digit Targets

You have two sets of digits from 0 to 9.

0	1	2	3	4	5	6	7	8	9

0	1	2	3	4	5	6	7	8	9

Arrange these digits in the five boxes to make **six-digit** numbers as close to the target number as possible.
You may use each digit once only for each number below.

Largest odd number

Largest even number

Largest multiple of 3

Smallest multiple of 5

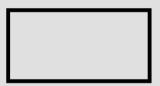Number closest to 100 000

I'm 8!

How many different ways can you make 8 using

$+, -, \times, \div \sqrt{\ } (\ )$ and index notation

This is an open-ended question. That means there is more than one answer. You need to provide a minimum of 8 answers to this question. The more answers, the better!

Tiling a floor

Your parents are renovating your house. The tiles they have selected for the floor are twice as long as they are wide, like this:

They've asked you to decide how these tiles will fit together to cover the floor. Draw the patterns on the grid paper attached

Mary was making a container of cordial to take to netball. She needed exactly one litre of cordial concentrate, however only had a three litre jug and a five litre jug. How will she measure just one litre of cordial with these two containers?

Tiling a floor

Use the grid below to design a tile layout to cover the floor of your newly renovated house.