Dice in a Corner

13/3/14

What was the Puzzle?

- In the dice in a corner puzzle we were told that there were three dice placed in a corner. There was a rule which stated that the numbers which connected together had to be the same. The dice had to be of the same mass and if you placed them like the picture on the right it wouldn't be allowed. You had to have all the visible faces adding up to 18. The challenge was to find as many answers as possible.

What did we do?

- To begin the puzzle we drew a factor tree of 18. After studying the tree for a while we realised that the easiest way to get an answer would be to use 1,2,3 and 4 on 5 or 6 faces and then use the numbers 5 or 6 on the other faces left in the dice. This lead to these solutions:




- Some of the strategies I used were to eliminate possibilities and to act it out. I used dice to solve the puzzle instead of trying to solve them in my head which would've confused me.

What did I find out?

- I found that the easiest way to find a solution to the dice in a corner puzzle was to use smaller numbers and then use one or two large numbers such as 5 or 6. I also found that the top number usually made the puzzle more difficult because if you just added the numbers below, if you reached an answer you would then have to add the top number. I usually got solutions one more than I needed.

Other puzzles and questions

- One of the biggest questions that arose was what if the rules were different? If the rules were different then it would probably easier to solve the puzzle. If you we're allowed to have different numbers touching I am sure me and my partner would've been able to find more answers if the rules had been changed like that.