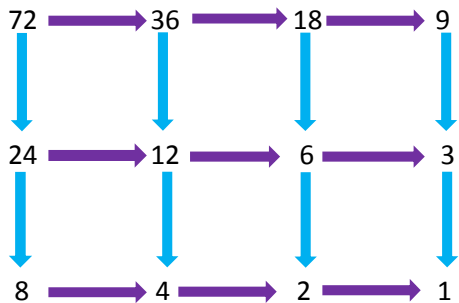


# Factorgrams By Amelia Redburn

In our last two lessons in mathematics we have been learning about factorgrams. When I first heard of factorgrams I thought it would be something about factors. A factorgram is a diagram that helps you find out a factor of a number. To help find the factor of a number we use prime numbers and use division and multiplication.

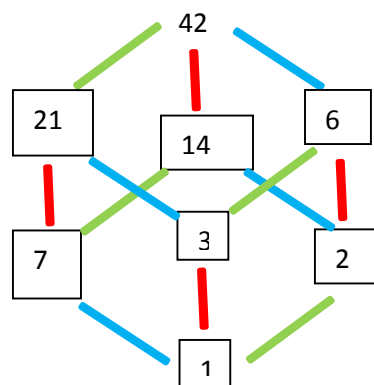
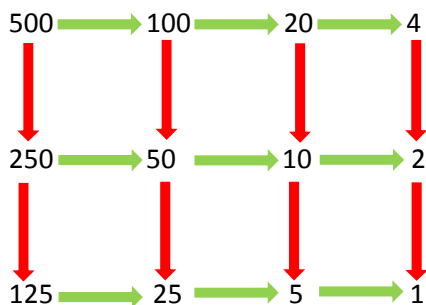
Factorgrams are one of the easiest ways to find out the factors in a number. In factorgrams to work out the question from a number down we use division and if we work from 1 and upwards we use multiplication. The easiest way for me if you only have the number 1 in a factorgram I use multiplication, but if you are given a number to find the factors for I use division. To divide the numbers you need some numbers to divide them by. That's why we use prime numbers. Now so here is what a factorgram looks like.



As you can see in my factorgram, it may look confusing but see the 72 all you need to do is divide by 3 down wards and divide by 2 side wards, from the 72 and keep on going. If you do it from the number 1 you times it by 3 up wards and 2 side wards. So as you can see it is pretty simple to work out. And now you know what the factors 72 are.

The mathematical strategies you use to work out for a factorgram are division to work from the number at the top and work down. An then multiplication is another strategy to use from going from 1 to the top number the answer. Also another thing to use in a factorgram is prime numbers. Prime numbers are those numbers greater than one that cannot be divided by any number except themselves and one.

What I found when I was learning about factorgrams is that the number 1 ends up at the end of the sum every time. All the 2D shapes are made from 2 prime factors and then the 3D shapes are made from 3 prime factors. This is what 2D and 3D factorgrams look like.



So I found out what factorgrams are. When using factorgrams we find the factor of a number using division, multiplication and using prime numbers. At first I really got confused with the factorgrams, but now I think it's much easier after I practiced.