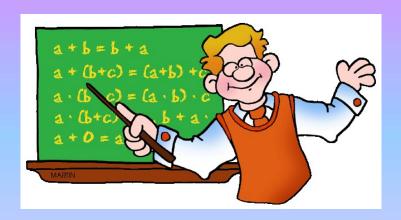
# Prime Numbers and Prime Factors



Identify the prime numbers in the grid below. There are 7 to find.

7	39	4	2.3	23
63	<b>5</b> %	17	<b>8</b> (	<u> </u>
<b>2</b> %	11		19	9.4
X	67	2	4:	37



Identify the prime numbers in the grid below. There are 7 to find.

127	129	153	343	313
4:5	<b>5</b> 7	199	1>7	213
93	449	111	367	<b>453</b>
1	666	137	183	919



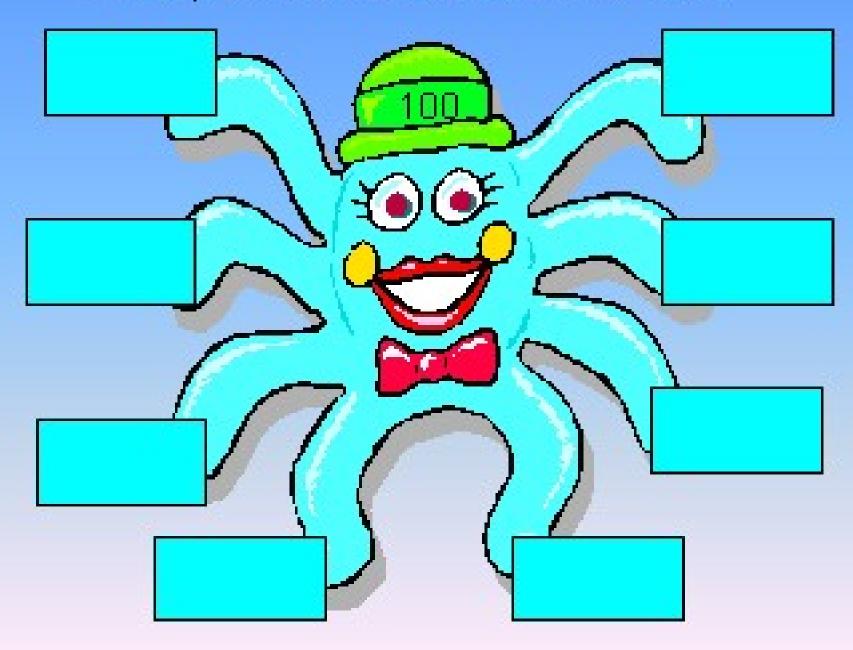
### Success Criteria

I can find factors of integers e.g. find the factors of 20

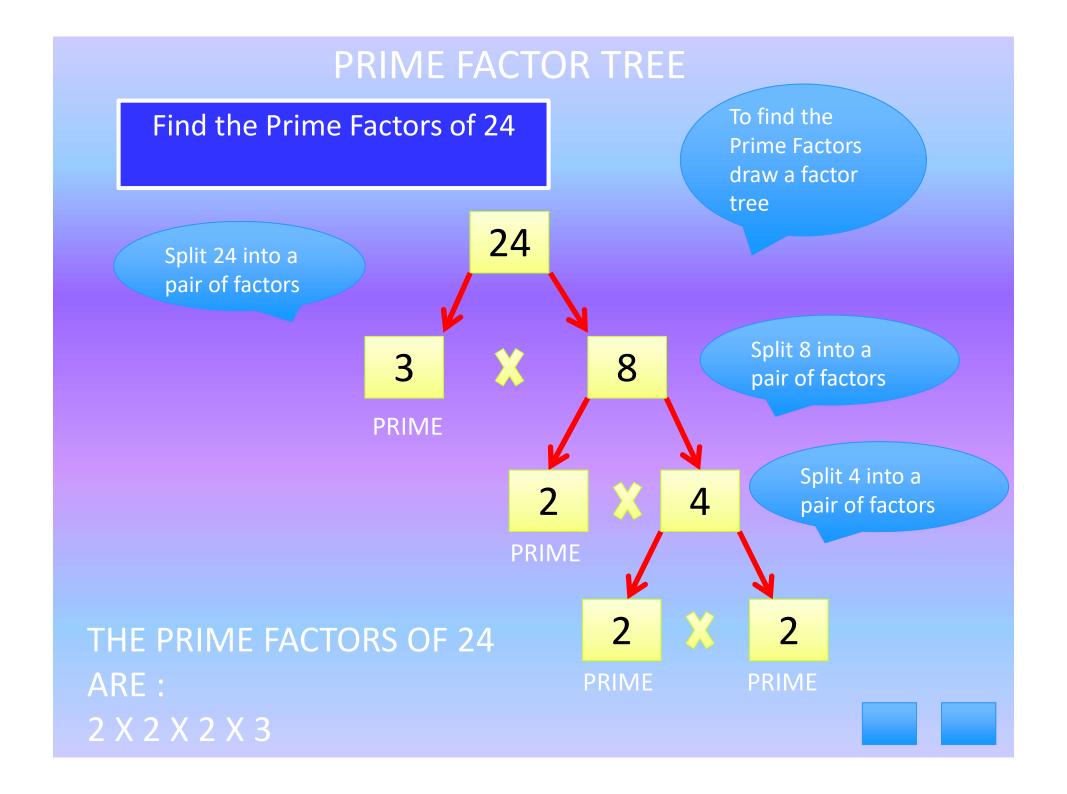
I understand what a prime number is e.g. What are the first 5 prime numbers

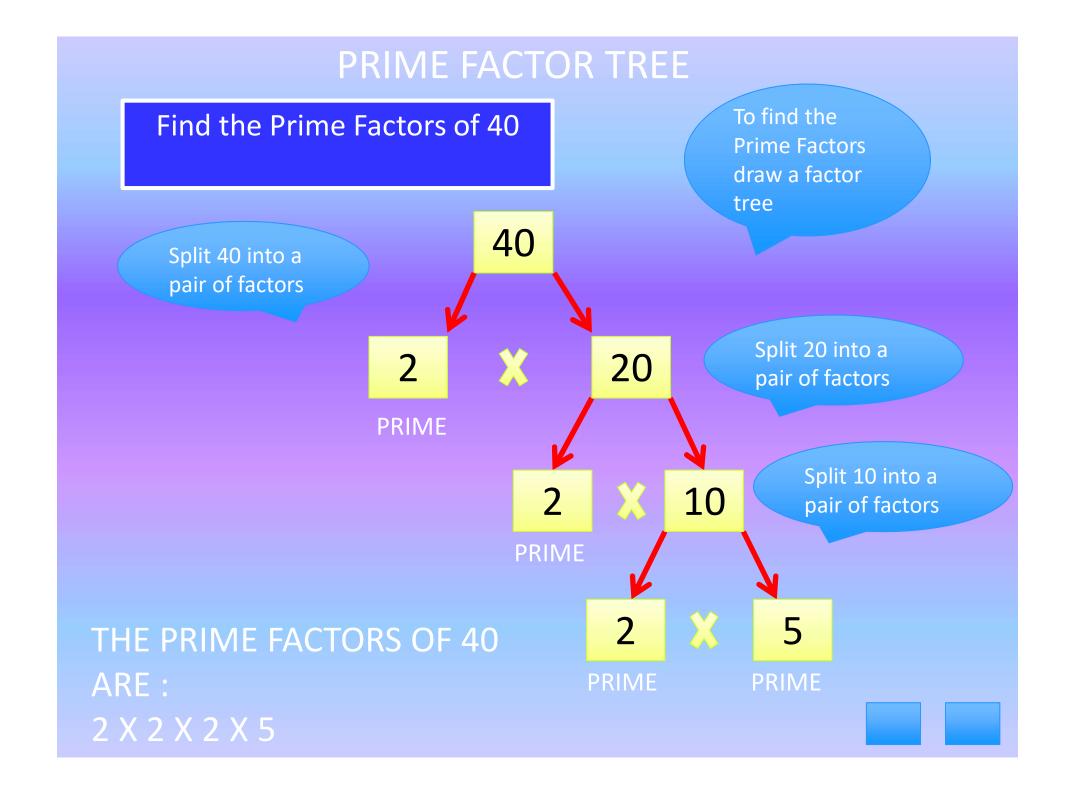
I can draw a factor tree to find prime factors e.g. find the prime factors of 20



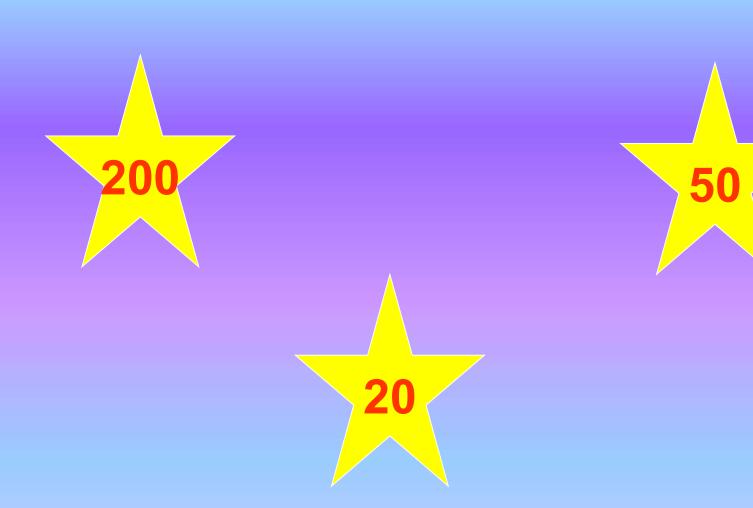






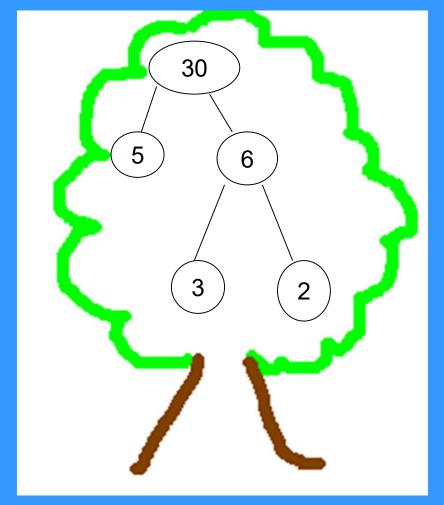


# You try !!!



### Trees?

- Some people say they look like trees ....
- This is a good way to see them to help you set them out. Each stage is like a branch.









# **Top Secret Mission**

Your mission should you choose to accept it is ...to investigate further these prime factors.



Lets hear from our leader.....





- Welcome agents your task today is to investigate how numbers can be written as products of their prime factors.
- I have seen you have already had a go at this and seem very confident.



### Level 5

 Investigate numbers up to 100 – and show them as a prime factor tree and a product of their prime factors in your books.

• Good Luck.



### Level 6

 Begin your mission and I will give you further instructions later in the lesson .....

 Remember to express your prime factors in index notation form.



 This message will self destruct in 5 seconds .....

Good Luck







### **End Question?**



All odd numbers are the sum of 3 prime numbers – is it true?

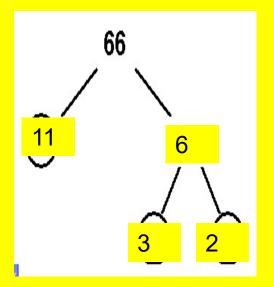
**Sometimes** 

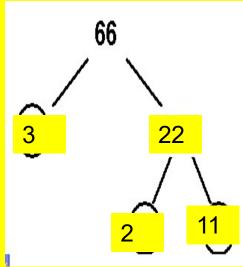
**Always** 

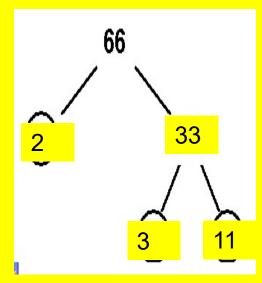
Never

### **PLENARY ACTIVITY**

Below are three incomplete factor trees for the number 66. Complete the factor trees in three different ways.







## Success Criteria

I can find factors of integers e.g. find the factors of 20

I understand what a prime number is e.g. What are the first 5 prime numbers

I can draw a factor tree to find prime factors e.g. find the prime factors of 20

Complete your exit ticket ......