

Prime numbers

Sunday, 25 March 2018 9:48 pm

★ By the end of teaching all students will be asked to complete the following work:

Year 7 Textbook

Chapter 3

Exercise 3D

Questions: 7-8(s), 9, 11, 12, 13

What is a prime number?

* A prime number is a number which can be divided by only two numbers, the number 1 and itself.

FACTORS

If we look at the following 10 numbers, we can see which are prime and which are not:

~~1~~ 2 3 ~~4~~ 5 ~~6~~ 7 ~~8~~ ~~9~~ ~~10~~

✓
 ✓
 EVEN

BFT

2, 3, 5, 7, 11, 13, 17, 19, 23, 29

5	
1	5

7	
1	7

What is a composite number

A composite number is a number which has more than 2 factors.

This means, it is a number which can be divided by more than one and itself.

We can talk about numbers which divide into (a whole number of times) as **factors**.

~~1~~ ~~2~~ ~~3~~ 4 ~~5~~ 6 ~~7~~ 8 9 10

1 2 4 1 2 3 6 1, 2, 4, 8

4 6 8 9 10 12 14 15 16 18

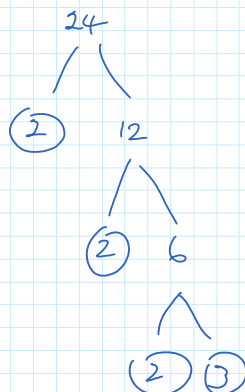
What is a prime factor?

Remember:

* **FACTOR:** A factor is a number which will divide into another number, a whole number of times.

24 : ~~1~~ 2 3 ~~4~~ ~~5~~ ~~6~~ ~~7~~ ~~8~~ ~~9~~ ~~10~~ ~~11~~ ~~12~~ ~~13~~ ~~14~~ ~~15~~ ~~16~~ ~~17~~ ~~18~~ ~~19~~ ~~20~~ ~~21~~ ~~22~~ ~~23~~ ~~24~~

24	
1	24
2	12
3	8
4	6



$24 = 2 \times 2 \times 2 \times 3$