How can I tell if a number is prime?
Use divisibility rules!

A number is divisible by:	If
2	The last digit is divisible by 2 (last digit is even)
3	The sum of its digits is divisible by 3
4	The last two digits, read as a two digit number, is divisible by 4
5	It ends in 0 or 5
6	It is divisible by 2 AND 3
8	The last three digits, read as a three digit number, is divisible by 8
9	The sum of its digits is divisible by 9
10	It ends in 0
12	It is divisible by 3 AND 4

Is the number 641,247 prime? If not, what is it divisible by?

Is 3142278 divisible by

2? Why?
3? Why?
4? Why?
5? Why?
6? Why?
8? Why?
9? Why?
10? Why?
12? Why?

LCM: List the multiples of each given number until a common multiple appears.
Find the lowest multiple that appears in all the lists – that is COMMON to all!

Find the LCM of 2, 6 , 12, an 24

FACTOR TREES HELP US FIND THE PRIME FACTORIZATION OF A GIVEN #!

GCF: Write the prime factorization of each number given.
Select the common factors, the factors that appear in both prime factorizations. If a factor appears twice in each prime factorization, select it twice.
Find the product of the common factors.

Find the GCF of the following pairs of numbers:

12 and 30/ 18 and 50/ 24 and 40,/13 and 52/100 and 250

<u>Model problems page 17 & 18</u>
<u>Problems page 18-19</u>