

## Chapter 2

Factors - two numbers multiplied to get a product

Dividend - the number you are dividing

Divisor - the number you are dividing by

quotient - the answer to the division problem

remainder - the number that is left after all the division is complete.

Estimate - an approximate number.

### Divisibility Rules

Dividing by:

2: the last digit is even

3: the sum of the digits can be divided by

ex ( 354 is  $3 + 5 + 4 = 12$  ; 12 can be divided by 3)

4: the last two digits can be divided by 4

ex (12,384 if 84 can be divided by 4 the number is divisible by 4)

5: the last digit is 0 or 5

6: the number can be divided by 2 and 3

9: the sum of the digits can be divided by 9

ex ( 75,105 is  $7 + 5 + 1 + 5 = 18$ ; 18 can be divided by 9)

10: the last digit is zero

Prime numbers- only have two factors one and itself (ex 3 is  $3 \times 1$ )

Composite numbers- are divisible by more than two numbers.

factor tree - a diagram that shows the prime factorization.

prime factorization - the prime numbers that can be multiplied together to get a product.

GCF - the largest factor common to two numbers.

(ex -12 is the GCF of 24 and 36)