## 3.1 Factors and Multiples of Whole Numbers

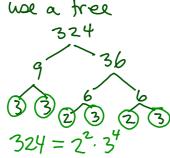
Prime numbers: are numbers that have exactly two factors; one and itself

Factor: a factor is a number that divides a natural number exactly

Multiple: a multiple of a natural number is the product of the number and another natural number

ex. Decompose 324 into prime factors ...

ex. Determine the Greatest Common Factor (GCF) between 24 and 60



$$\frac{24}{4} = \frac{60}{10}$$

$$\frac{60}{2} = \frac{2}{3} = \frac{5}{3} = \frac{5}{3}$$

$$\frac{60}{5} = \frac{5}{3} = \frac{5}{3}$$

$$\frac{60}{5} = \frac{5}{3} = \frac{5}{3} = \frac{5}{3}$$

ex. Determine the Least Common Multiple (LCM) between 15 and 12

D list: 12,24,36,48,60 (2) 12: (2.2) (3) = (2.3) 
$$\frac{15}{30}$$
, 45,60 (2) 12: (2.2) (3) = (2.3)  $\frac{15}{30}$ , 30,45,60 (15: 3.6)

See ex. 4 on pg. 138 16cm 80 Jb