**Factors and Powers**

**Greatest Common Factor**

**GCF** – greatest factor the numbers have in common

GCF ( 12, 8)

GCF(24, 30)

GCF(138,198)

GCF(84,36)

**Least Common Multiple**

**LCM** – the least number that is divisible by each number

LCM(10,8)

LCM(16,24)

LCM(18,20,30)

LCM(28,42,63)

On the calculator:

Math ->NUM -> #8 LMC(#,#)

 #9 GCD(#,#)

**Solving work problems using LCM or GCF**

1. We have a rectangle tile with dimensions 16 cm by 40 cm. What is the smallest square we can make with the rectangle tiles if no partial tiles are used?
2. We have a rectangular floor measuring 24 cm by 32 cm. What is the size of the largest square tile that can fit into the floor? How many square tiles will be needed?