## Finding Greatest Common Factor (GCF) and Least Common Multiple (LCM) for 2 numbers

Find the GCF and LCM of 36 and 90

- Step 1: Think of <u>any</u> number that will divide into 36 and 90 evenly—doesn't have to be prime "2" will work
- Step 2: Divide 2 into 36 and 90 ---- write the answer below them

- Step 3: Now is there any number that will divide into 18 and 45 evenly? Yes, 9
- Step 4: Divide 9 into 18 and 45 and write the answer under them

- Step 5: Now is there any number that will divide into 2 and 5 evenly? No, then you are finished.
- Step 6: GCF -- If you multiply what is in the left column (2,9) you have the GCF.  $GCF = 9 \times 2 = 18$
- Step 7: LCM --- If you multiply the numbers in the left column (2, 9) and the numbers that are left over (2, 5) you will have the LCM. LCM =  $2 \times 9 \times 2 \times 5 = 180$