Greatest Common Factor

Define GCF:

Method 1:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**HOW TO FIND THE GCF BY MAKING A LIST:**

Example: 24- 1, 2, 3, 4, 6, 8, 12, 24

30- 1, 2, 3, 5, 6, 10, 15, 30

Since 6 is the largest factor that appears on BOTH lists, the GCF of 24 and 30 is 6

Method 2:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Example: 7 28 70

**HOW TO FIND THE GCF USING A SLED:**

2 4 10

2 5

7 x 2 = 14

The GCF of 28 and 70 is 14

Method 3:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Example: 12 36

**HOW TO FIND THE GCF USING PRIME FACTORIZATION:**

2 6 6 6

1 2 2 3 2 3 2 3

GCF is all of the same prime factors multiplied together (each number has two 2’s and one 3): 

**TRY THESE:**

1. 38 and 42 2. 90 and 75 3. 54 and 18

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