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# 1.5 Greatest Common Factor (G.C.F.)

Common Factors: Factors that are shared by two or more numbers

G.C.F.: the greatest of the common factors

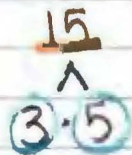
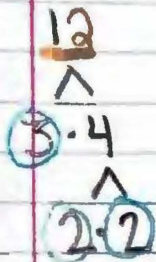
List factors:

24 = 1, 2, 3, 4, 6, 8, 12, 24

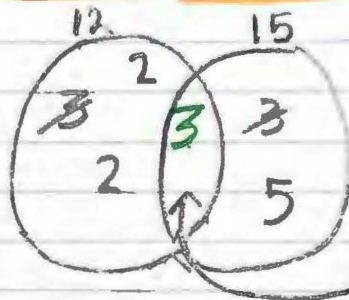
**GCF = 8**

40 = 1, 2, 4, 5, 8, 10, 20, 40

Find the GCF with Prime Factorization / Venn Diagram



GCF = 3

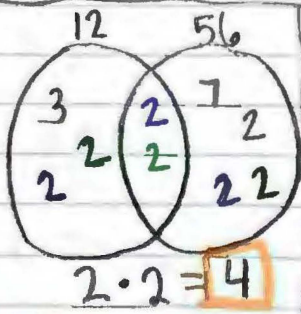
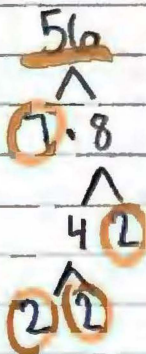
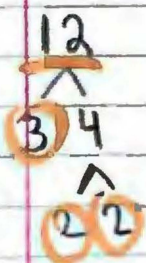


Multiply the common factors

$12 = 2 \cdot 2 \cdot 3 = 3$

$15 = 3 \cdot 5$

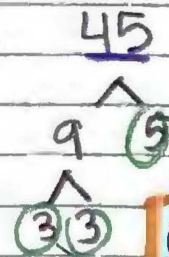
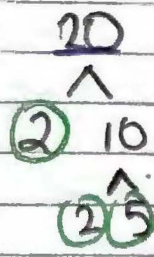
①



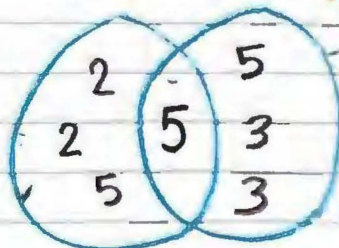
$2 \cdot 2 = 4$

**GCF = 4**

②

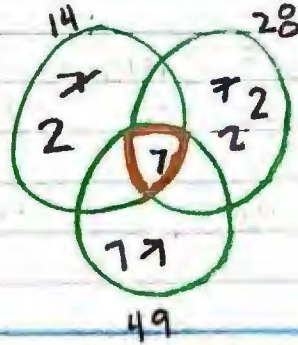
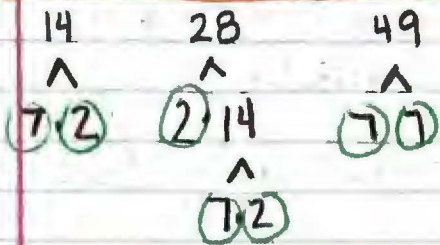


**GCF = 5**



HW Pgs 34-35 (4, 6, 14, 16, 19, 21, 23, 24):

Ex 3 Numbers



GCF = 7