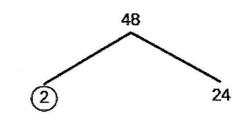
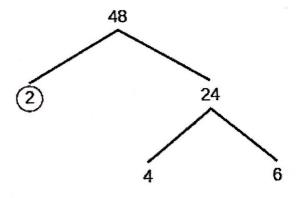
Prime Factorization Factor Tree Notes

We can start our tree using any factor pair of 48. Let's use 2 and 24.

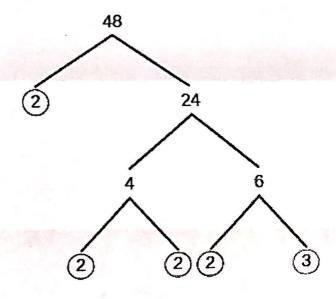
We circle the 2 because it is prime, and so that branch is complete.

Now we will factor 24. Let's use 4 and 6.





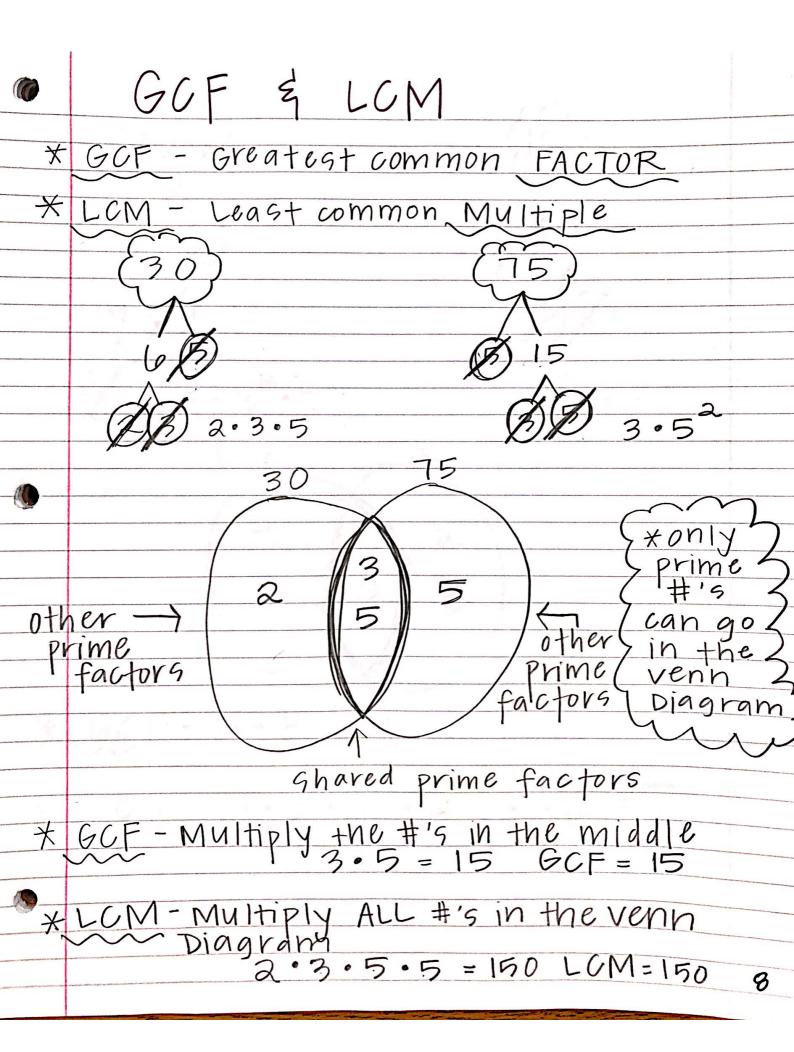
Neither factor is prime, so we do not circle either. We factor the 4, using 2 and 2. We factor 6, using 2 and 3.

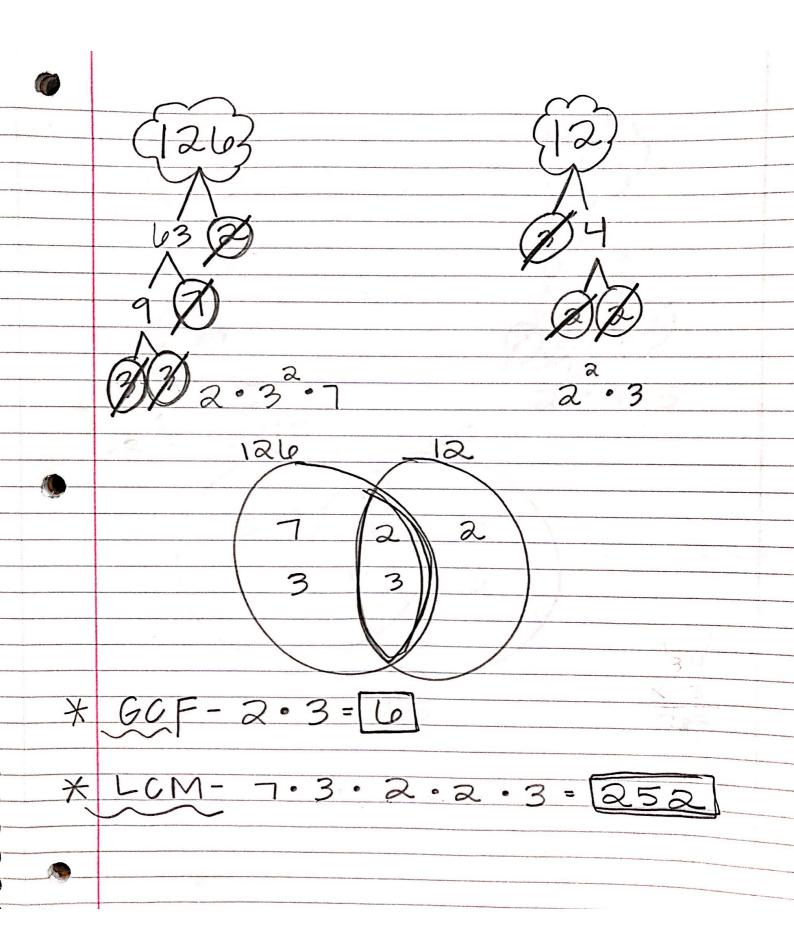


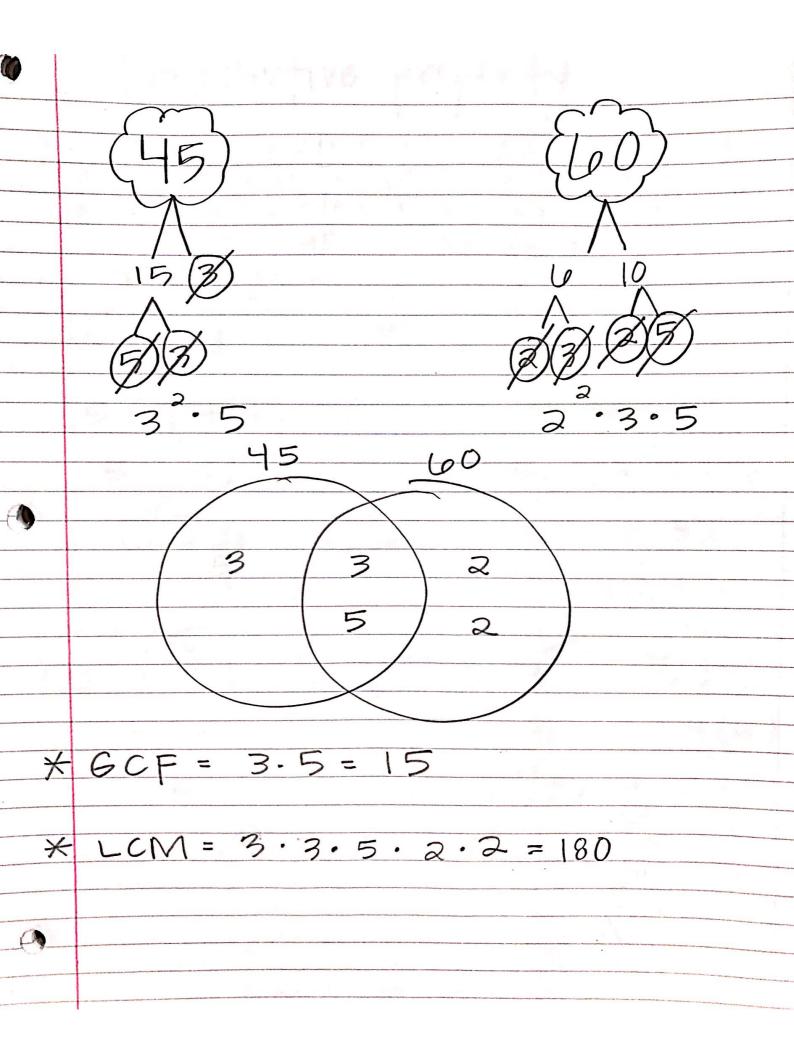
We circle the 2s and the 3 since they are prime. Now all of the branches end in a prime. Write the product of the circled numbers.

Simplify the prime factorization of 48.

$$2^4 \cdot 3$$







	Dictail
	Distributive property
X	The Dichilation Di
$ \Lambda$	The Distributive Property states that multiplying a number by a group of numbers added together is the same as doing each multiplication separately.
	numbers added there by a group of
	same as doing each is the
	separately. Gold multiplication
	old way vs. Distributive Property
	5/4+11
	5(4+11) 5(4+11)
	5 (15) E(1)
	5(4)+5(11)
*	75 20 + 55
	20 1 55
	75
ex	: 4(2+3) ex: 4(2)
	= 4(4+3) ex: $4(9-6)$
	4(2) + 4(3) $4(9)$ $4(1)$
	4(9) - 4(6)
	8 + 12 36 - 24
	36 - 24
	20
	12
-	
	And the second

* USO the GOF from two addends
to rewrite the sum using the
Distributive Property. atill have gomething in common 12