

LCM 3-ways

#1 - make a list for each number by skip counting until the lists have a number that's the same.

$$\text{LCM}(4, 10, 12) = ?$$

4 8 12 16 20 24 32 36 40 44 48 52 56 (60)

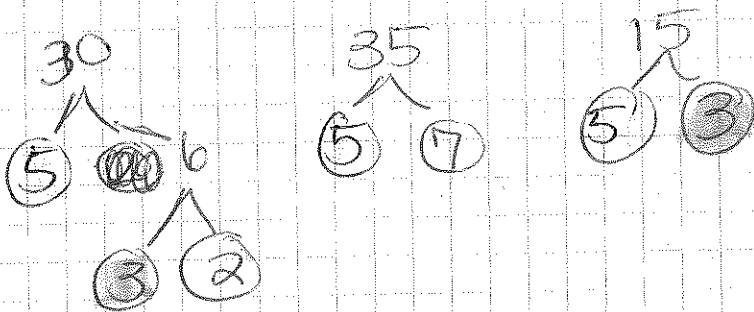
10 20 30 40 50 (60)

12 24 36 48 (60)

$$\boxed{\text{LCM}(4, 10, 12) = 60}$$

#2 - make factor trees. multiply common primes once and all of the left over primes.

$$\text{LCM}(30, 35, 15) = ?$$



$$5 \times 3 \times 2 \times 7 = 210$$

$$\boxed{\text{LCM}(30, 35, 15) = 210}$$

#3 - Birthday Cake

(this will not always work with 3 numbers but always works with 2.)

$$\text{LCM}(98, 42) = ?$$

| | | | | |
|--|-----|--|----|----|
| divide out a common factor | → 2 | | 98 | 42 |
| | → 7 | | 49 | 21 |
| | | | 7 | 3 |

multiply in the shape of
an "L".

$$2 \times 7 \times 1 \times 7 \times 3 = 294$$

$$\boxed{\text{LCM}(98, 42) = 294}$$