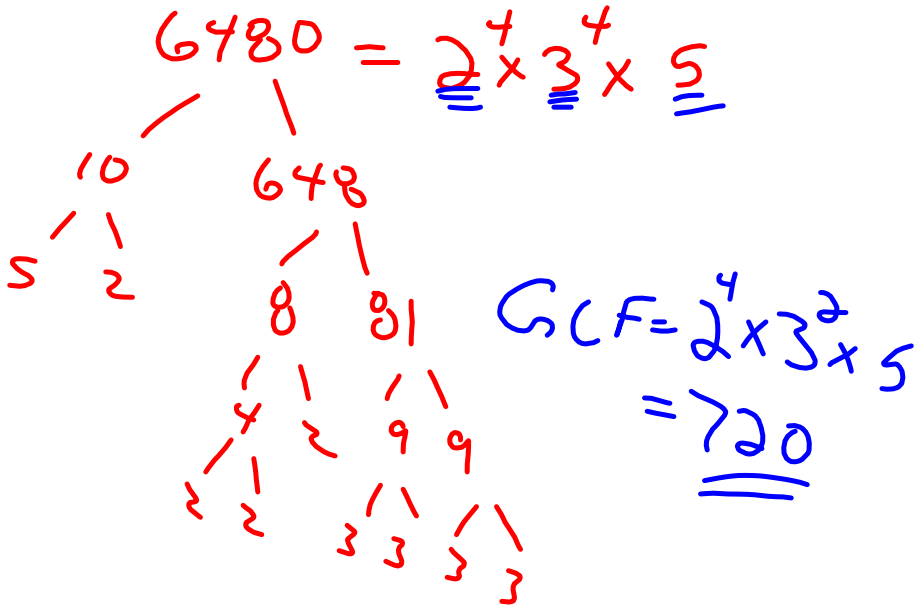
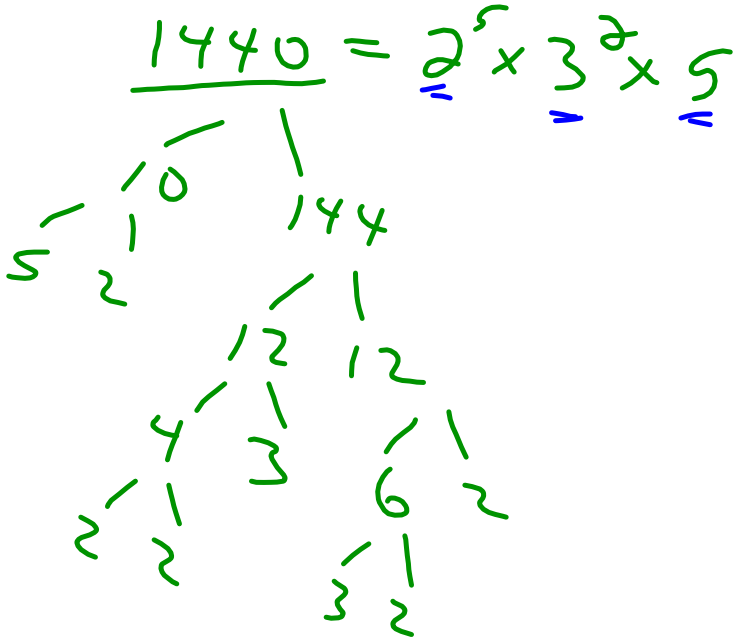
Check-Up...

Determine the GCF for 6480 and 1440





What is the Least Common Multiple?

The <u>least common multiple</u> is the least multiple that is the same for two or more numbers.

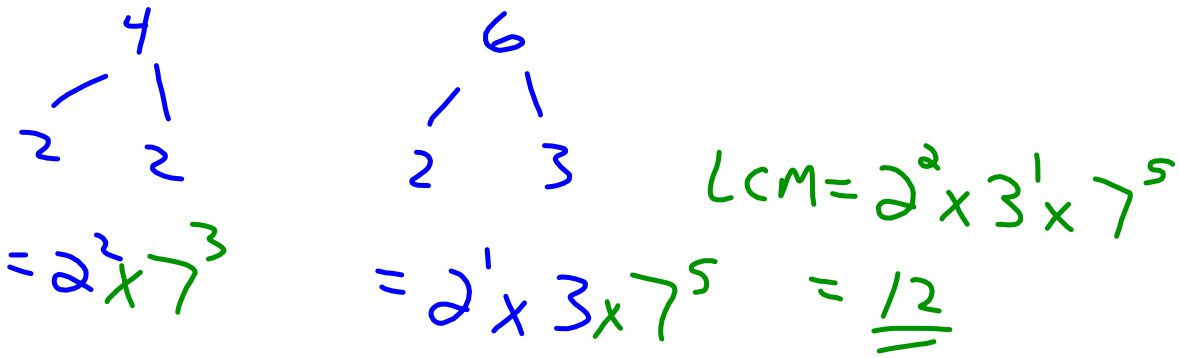
4 & 6

GCF
= 2

LCM
= 12

Least Common Multiple

What is the least common multiple (LCM) of 4 and 6?

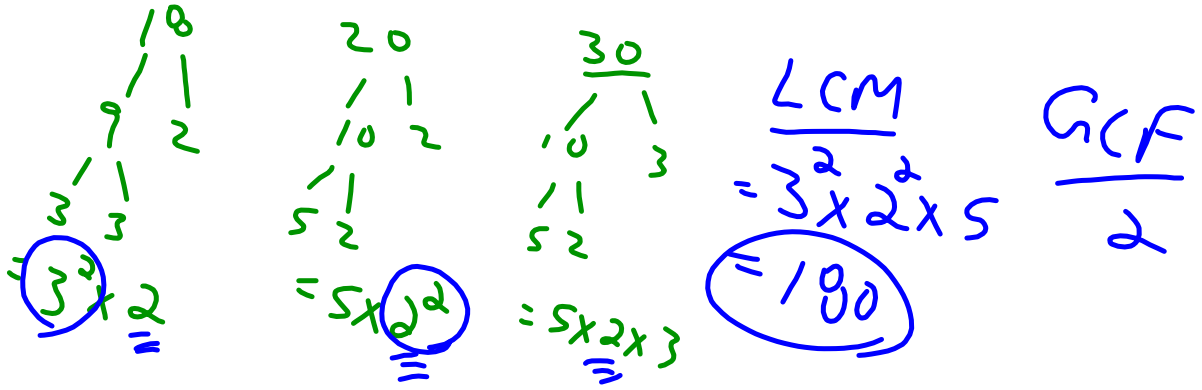


What is a sure fire method to come up with a common multiple...perhaps just not the LEAST common multiple?

Determine the least common multiple of 18, 20, and 30

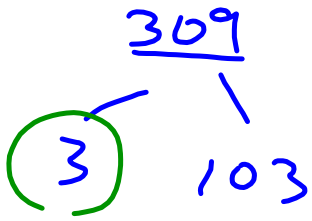
Step #1 Write the prime factorization of each number.

Step #2 Circle the greatest power of each prime number.



Determine the least common multiple of 120 & 309

$= 2^3 \times 3 \times 5$



LCM

$2^3 \times 3 \times 5 \times 103$

$= 12360$

GCF

$= 3$

Practice Problems...

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#6, 8, 10, 11, 12, 16