

Finding the LCM of 3 (or more) Values:

There are three methods to solve these kinds of problems. You may use any of these methods to solve:

EXAMPLE #1: Find the LCM of 4, 10, and 30.

1. The Ladder:

NOTE: You can ÷ out a factor even if it is only common to 2 of the values

2	4	10	30
5	2	5	15
2	1	3	

$LCM = 2 \cdot 5 \cdot 2 \cdot 1 \cdot 3 =$
60

2. Create Multiple Strings:

4:	4	8	12	16	<u>20</u>	24	28	32	36	<u>40</u>	44	48	52	56	<u>60</u>	
10:	10	<u>20</u>	<u>30</u>	<u>40</u>	50											
30:									<u>30</u>							

3. Reasoning & Hybrid:

I know every multiple of 30 is also a multiple of 10 so I will solve for the LCM of 4 and 30 only:

The Ladder:

2	4	30
2	2	15

$LCM = 2 \cdot 2 \cdot 15 =$ 60

Multiple Strings:

4:	4	8	12	16	20	...	<u>60</u>
30:						30	<u>60</u>



You Got This:

Find the LCM of:

1. 4, 6, and 10

2. 6, 8, and 12