Ladder Method for GCF

Use this method to find the GCF of 2 or 3 numbers.

To find the GCF of 2 numbers:

Example

Find the GCF of 8 and 12.

Find a number that has a common divisor (goes into both numbers evenly).

Step 3: Draw a circle around each outside number, not including the bottom numbers.

Since there is no number that divides into 2 and 3 evenly, we are finished.

Find the GCF of 8 and 12 by multiplying all the circled numbers.

To find the GCF of 3 numbers:

Example

Find the GCF of 16, 40 and 88.

Since there is no number that divides into 2, 5, and 11, we are finished.

Find the GCF of 16, 40 and 88 by multiplying all the circled numbers.

$$2 \times 2 \times 2 = 8$$