Factors of an Integer - Guided Lesson Explanation

Explanation#1

1 x 28 = 28

2 x 14 = 28

4 x 7 = 28

After 4 x 7 the answer will be smaller than the divisor. The factors of 28 are 1, 2, 4, 7, 14, and 28.

Explanation#2

68 has the factors 1, 2, 4, 17, 34, and 68.

Does 68 go evenly into 170? No.

Does 34 go evenly into 170? Yes.

So 34 is the greatest common factor of 68 and 170.

Explanation#3

If two factors have a common multiple than that number is also a factor. In this case its 24.

Because 24 is the common multiple of 12 and 2.