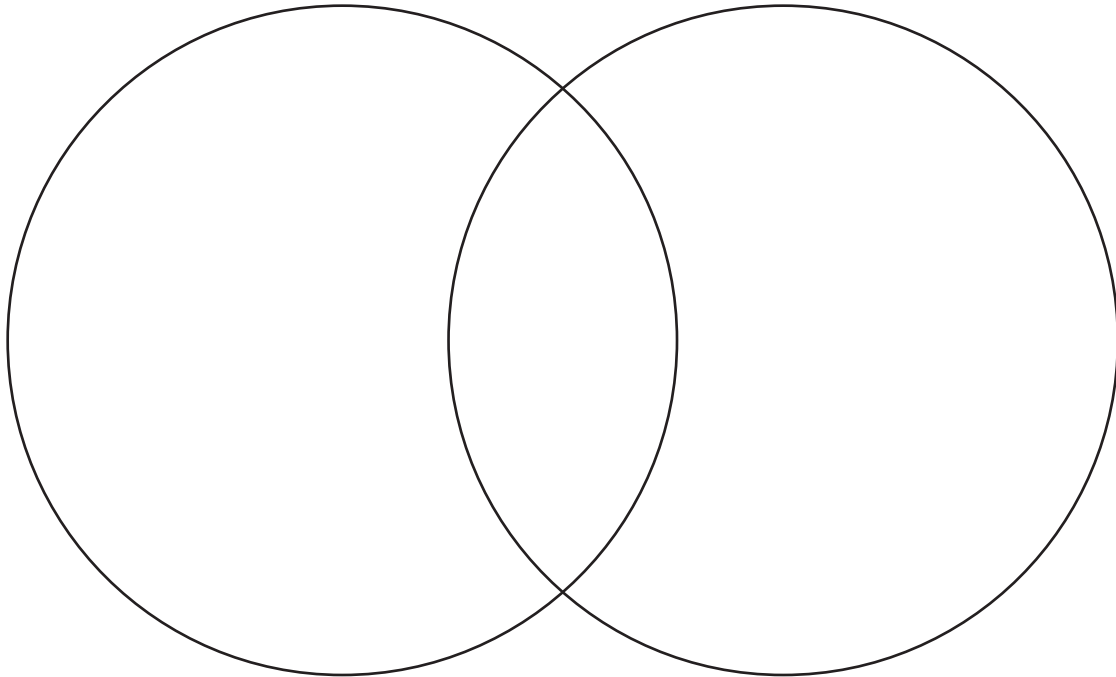


Finding the Greatest Common Factor

Build a set of factor trees for each of the number pairs below, recording each factor on a Post-it note. Then, transfer the prime factors to the Venn diagram. Which prime factors do the number pairs have in common? What is the greatest common factor?

Number pairs:

30, 45 40, 70 63, 42 81, 54 33, 99



Describe your method for finding the greatest common factor of any two numbers.

One number has the prime factors 2, 3, 5, and x . Another number has the prime factors 2, 5, 7, and x . What is the greatest common factor between these two numbers? Explain how you know this.