



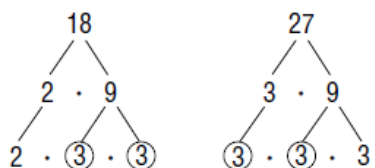
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5-1**Study Guide and Intervention*****Greatest Common Factor***

The **greatest common factor (GCF)** of two or more numbers is the greatest common factor of the numbers. To find the GCF, you can make a list or use prime factors.

EXAMPLE 2 Find the GCF of 18 and 27 by using prime factors.

Write the prime factorizations of 18 and 27.



The common prime factors are 3 and 3. So, the GCF of 18 and 27 is 3×3 or 9.

EXERCISES**Find the GCF of each set of numbers.****1.** 8 and 12**2.** 10 and 15**3.** 81 and 27**4.** 15 and 20**5.** 6 and 12**6.** 28 and 42**7.** 21 and 9**8.** 15 and 7**9.** 54 and 81**10.** 30 and 45**11.** 44 and 55**12.** 35, 20, and 15