Name _____ Date _____

1.5 Practice B

Find the GCF of the numbers using lists of factors.

1. 15, 40 **2.** 32, 56 **3.** 34, 39

4. 21, 84 **5.** 60, 100 **6.** 48, 108

Find the GCF of the numbers using prime factorizations.

7. 34, 85 **8.** 72, 108 **9.** 80, 200

10. 42, 56 **11.** 22, 154 **12.** 90, 150

13. Describe and correct the error in finding the GCF of 10 and 18.

✗
$10 = 2 \cdot 5$
$18 = 2 \cdot 3^2$
The GCF is 90.

Find the GCF of the numbers.

14. 45, 51, 69 **15.** 20, 45, 55 **16.** 24, 84, 108

17. You are creating a set of three numbers that have a GCF of 9. You have 27 and 54 for two of the numbers.

a. What is the GCF of 27 and 54?

b. Find two numbers that you could add to the set of 27 and 54 such that the GCF is now 9.

18. Consider the numbers 308, 616, and 660.

a. Find the prime factorization of each number.

b. Find the GCF of each pair of numbers.

c. Which pair of numbers has a different GCF than the other two pairs?