Name _____ Class _____ Date _____

Practice 3-4

Prime Factorization

Find the LCM of each pair of numbers.

1. 11, 5 _____ **2.** 5, 12 _____ **3.** 12, 7 _____

4. 5, 9 _____ **5.** 5, 18 _____ **6.** 5, 20 _____

7. 7, 10 _____ **8.** 17, 13 _____ **9.** 14, 8 _____

10. 11, 23 _____ **11.** 14, 5 _____ **12.** 16, 9 _____

13. Cameron is making bead necklaces. He has 90 green beads and 108 blue beads. What is the greatest number of identical necklaces he can make if he wants to use all of the beads?

_____

14. One radio station broadcasts a weather forecast every 18 minutes and another station broadcasts a commercial every 15 minutes. If the stations broadcast both a weather forecast and a commercial at noon, when is the next time that both will be broadcast at the same time?

_____

Tell whether each number is prime or composite.

15. 97 _____ **16.** 63 _____ **17.** 29 _____ **18.** 120 _____

Write the prime factorization. Use exponents where possible.

19. 42 _____ **20.** 130 _____

21. 78 _____ **22.** 126 _____

23. 125 _____ **24.** 90 _____

25. 92 _____ **26.** 180 _____

Find the GCF of each pair of numbers.

27. 45, 60 _____ **28.** 18, 42 _____ **29.** 32, 80 _____

30. 20, 65 _____ **31.** 24, 90 _____ **32.** 17, 34 _____

33. 14, 35 _____ **34.** 51, 27 _____ **35.** 42, 63 _____