Name _____ Class _____ Date _____

Practice 4-3

Prime Factorization and Greatest Common Factor

Find each GCF.

1. 8, 12 _____

2. 36, 54 _____

3. 63, 81 _____

4. 69, 92 _____

5. 15, 28 _____

6. 21, 35 _____

7. $30m$, $36n$ _____

8. $75x^3y^2$, $100xy$ _____

9. 15, 24, 30 _____

10. 48, 80, 128 _____

11. $36hk^3$, $60k^2m$, $84k^4n$ _____

12. $2mn$, $4m^2n^2$ _____

Is each number prime, composite, or neither? For each composite, write the prime factorization.

13. 75 _____

14. 152 _____

15. 432 _____

16. 588 _____

17. 160 _____

18. 108 _____

19. 19 _____

20. 143 _____

21. 531 _____

22. 369 _____

23. 83 _____

24. 137 _____

25. The numbers 3, 5, and 7 are factors of n. Find four other factors of n besides 1.

_____

26. For which expressions is the GCF $8x$?

A. $2xy$ and $4x^2$ **B.** $16x^2$ and $24xy$ **C.** $8x^3$ and $4x$ **D.** $24x^2$ and $48x^3$