Name: _____ Date: _____

Lesson 1.3 Common Factors and Multiples

Find the common factors of each pair of numbers.

1. 28 and 40 _____

2. 45 and 63 _____

3. 35 and 60 _____

4. 56 and 70 _____

Find the greatest common factor of each pair of numbers.

5. 18 and 48 _____

6. 40 and 64 _____

7. 42 and 70 _____

8. 30 and 75 _____

Express the sum of each pair of numbers as a product of the greatest common factor of the numbers and another sum.

9. 42 + 105 _____

10. 54 + 90 _____

Find the first three common multiples of each pair of numbers.

11. 3 and 8 _____

12. 4 and 9 _____

13. 9 and 21 _____

14. 12 and 28 _____

Find the least common multiple of each pair of numbers.

15. 16 and 24 _____

16. 15 and 24 _____

17. 18 and 30 _____

18. 25 and 20 _____

Find the greatest common factor of each set of numbers.

19. 15, 45, and 60 _____

20. 28, 42, and 70 _____

21. 63, 84, and 105 _____

22. 56, 78, and 130 _____

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Find the least common multiple of each set of numbers.

23. 12, 20, and 24 _____

24. 20, 30, and 40 _____

25. 24, 36, and 54 _____

26. 10, 25, and 35 _____

Find the greatest common factor and the least common multiple of each set of numbers.

27. 12, 28, and 36 _____

28. 18, 24, and 30 _____

29. 45, 75, and 90 _____

30. 48, 84, 144 _____

Solve.

31. A box of marbles can be shared equally among 6, 7, or 8 students with 4 marbles left over each time. What is the least possible number of marbles in the box?

32. A light flashes every 2 minutes, a second light flashes every 3.5 minutes, and a third light flashes every 4 minutes. If all three lights flash together at 8 P.M., what is the next time of the day they will all flash together?