

Assignment #4: Problems 2-40, evens

Least Common Multiple

Name _____

Date _____

The **least common multiple (LCM)** of two or more numbers is the least number, except 0, that is a common multiple of both (or all) of the numbers.

What is the LCM of 4, 6, and 8?

Multiples4: 4, 8, 12, 16, 20, **24** . . .6: 6, 12, 18, **24**, 30 . . .8: 8, 16, **24**, 32 . . .**Least Common Multiple (LCM): 24****Find the LCM of each set of numbers.**

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|-------------------------|------------------------|------------------------|------------------|
| 1. 4, 7 _____ | 2. 3, 5 _____ | 3. 6, 12 _____ | 4. 5, 7 _____ |
| 5. 4, 24 _____ | 6. 7, 11 _____ | 7. 6, 15 _____ | 8. 9, 30 _____ |
| 9. 5, 8 _____ | 10. 1, 17 _____ | 11. 8, 48 _____ | 12. 3, 12 _____ |
| 13. 32, 48 _____ | 14. 2, 35 _____ | 15. 16, 64 _____ | 16. 10, 12 _____ |
| 17. 9, 36 _____ | 18. 14, 42 _____ | 19. 7, 8 _____ | 20. 11, 12 _____ |
| 21. 5, 10, and 15 _____ | 22. 3, 6, and 9 _____ | 23. 4, 8, and 12 _____ | |
| 24. 2, 3, and 5 _____ | 25. 3, 4, and 6 _____ | 26. 4, 6, and 9 _____ | |
| 27. 3, 5, and 9 _____ | 28. 3, 4, and 7 _____ | 29. 4, 7, and 8 _____ | |
| 30. 4, 6, and 32 _____ | 31. 5, 8, and 20 _____ | 32. 3, 4, and 18 _____ | |

Find the LCM of each pair of numbers. Use prime factorization.

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|-----------------|-----------------|-----------------|-----------------|
| 33. 4, 10 _____ | 34. 2, 16 _____ | 35. 9, 27 _____ | 36. 5, 9 _____ |
| 37. 5, 25 _____ | 38. 4, 12 _____ | 39. 7, 11 _____ | 40. 2, 13 _____ |