

The Distributive Law—Factoring, Evaluating Expressions

DOT-TO-DOT PUZZLE

1. Work each exercise.
2. Find the dot by each answer and connect the dots in order.

Exercises

Factor each expression. Evaluate the factored expression for $a = 3$, $b = 5$, $c = 8$, $p = 1$, $q = 2$, and $w = 0$. Check by evaluating the original expression.

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|------------------------------|-------------------|-------------------|
| 1. $3a + 3c = 3(a + c) = 33$ | 13. $10p + 10q$ | 25. $12q + 12a$ |
| 2. $5b + 15c$ | 14. $12q + 12p$ | 26. $55p + 55a$ |
| 3. $8b + 8a$ | 15. $12p + 12w$ | 27. $700b + 700a$ |
| 4. $75q + 75p$ | 16. $2q + 2p$ | 28. $14w + 14a$ |
| 5. $36p + 36q$ | 17. $4b + 4c$ | 29. $7q + 7w$ |
| 6. $7a + 7b$ | 18. $100c + 100b$ | 30. $19a + 19p$ |
| 7. $9c + 9b$ | 19. $79q + 79p$ | 31. $35a + 35p$ |
| 8. $16c + 16b$ | 20. $11a + 11b$ | 32. $17b + 17q$ |
| 9. $13a + 13b$ | 21. $5c + 5q$ | 33. $9p + 9b$ |
| 10. $5c + 5a$ | 22. $9w + 9c$ | 34. $13a + 13p$ |
| 11. $18a + 18b$ | 23. $4a + 4q$ | 35. $3b + 3q$ |
| 12. $7b + 7c$ | 24. $15a + 15b$ | |

