

# Simplifying Expressions

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**Simplify each of the following expressions. If the expression cannot be simplified, circle it.**

$$9x + 6x - 14x = \underline{\hspace{2cm}}$$

$$8a - 3a + 12a = \underline{\hspace{2cm}}$$

$$15p - 15p - p = \underline{\hspace{2cm}}$$

$$3w - 11w = \underline{\hspace{2cm}}$$

$$-4q - 9q + 15q + 13q = \underline{\hspace{2cm}}$$

$$11m - 10m + 4m - 8m = \underline{\hspace{2cm}}$$

$$-6d + 10d + 3d + d = \underline{\hspace{2cm}}$$

$$13t - 7t + 10t - 10t = \underline{\hspace{2cm}}$$

$$12b + 8b + 6b + 2b = \underline{\hspace{2cm}}$$

$$6k + 15k + 15k - 8k - 7k = \underline{\hspace{2cm}}$$

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**Simplify each of the following expressions. If the expression cannot be simplified, circle it.**

$$1 + 5n - 9n + m = \underline{\hspace{2cm}}$$

$$7y - 13x - x = \underline{\hspace{2cm}}$$

$$-a + 13a + 2b = \underline{\hspace{2cm}}$$

$$3h + 11 = \underline{\hspace{2cm}}$$

$$-7g - 8f - 8 - 2g = \underline{\hspace{2cm}}$$

$$15j + 3k + 5j + 11k = \underline{\hspace{2cm}}$$

$$-2s + 9s + 5t - 7s + 3 = \underline{\hspace{2cm}}$$

$$13 - 5z - 3y + 8 - 13x = \underline{\hspace{2cm}}$$

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**Simplify each of the following expressions. If the expression cannot be simplified, circle it.**

$$4b - 7b - 15 = \underline{\hspace{2cm}}$$

$$7x + 2y - 15z = \underline{\hspace{2cm}}$$

$$9 + 11 - 10q - 12q = \underline{\hspace{2cm}}$$

$$-8f - 15g - 8e + 10f = \underline{\hspace{2cm}}$$

$$7n - 10n - 5m + 10n + 13m = \underline{\hspace{2cm}}$$

$$c + 3c - a + 13b + 8a - 15b + 15c = \underline{\hspace{2cm}}$$

$$6 - 8r - 8r + 14 - 9r + 6 + 4r = \underline{\hspace{2cm}}$$

$$7s + 11s - 5s + 7 - 12t + 12s - 3t = \underline{\hspace{2cm}}$$

$$-10u - 4 + 12u - 14v + 10u - 7 + 12w - 5v + 6 = \underline{\hspace{2cm}}$$

# Simplifying Expressions Key

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$$9x + 6x - 14x = x$$

$$15p - 15p - p = -p$$

$$-4q - 9q + 15q + 13q = 15q$$

$$-6d + 10d + 3d + d = 8d$$

$$12b + 8b + 6b + 2b = 28b$$

$$8a - 3a + 12a = 17a$$

$$3w - 11w = -8w$$

$$11m - 10m + 4m - 8m = -3m$$

$$13t - 7t + 10t - 10t = 6t$$

$$6k + 15k + 15k - 8k - 7k = 21k$$

$$1 + 5n - 9n + m = m - 4n + 1$$

$$-a + 13a + 2b = 12a + 2b$$

$$-7g - 8f - 8 - 2g = -8f - 9g - 8$$

$$-2s + 9s + 5t - 7s + 3 = 5t + 3$$

$$7y - 13x - x = -14x + 7y \text{ (or } 7y - 14x)$$

$$3h + 11 = \underline{\hspace{2cm}}$$

$$15j + 3k + 5j + 11k = 20j + 14k$$

$$13 - 5z - 3y + 8 - 13x = -13x - 3y - 5z + 21$$

$$4b - 7b - 15 = -3b - 15$$

$$9 + 11 - 10q - 12q = -22q + 20 \text{ (or } 20 - 22q)$$

$$7n - 10n - 5m + 10n + 13m = 8m + 7n$$

$$c + 3c - a + 13b + 8a - 15b + 15c = 7a - 2b + 19c$$

$$6 - 8r - 8r + 14 - 9r + 6 + 4r = -21r + 26 \text{ (or } 26 - 21r)$$

$$7s + 11s - 5s + 7 - 12t + 12s - 3t = 25s - 15t + 7$$

$$-10u - 4 + 12u - 14v + 10u - 7 + 12w - 5v + 6 = 12u - 19v + 12w - 5$$

$$7x + 2y - 15z = \underline{\hspace{2cm}}$$

$$-8f - 15g - 8e + 10f = -8e + 2f - 15g$$