

# Mixed Operations: Multiplying & Adding Terms

*Simplify the following expressions. Remember to do the multiplication first!*

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1. Simplify:  $5a \times 2b + 3ab$

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2. Simplify:  $4x \times 3x - 5x^2$

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3. Simplify:  $7p + 3p \times 4$

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4. Simplify:  $2p \times 6q + 3p \times 4q$

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5. Simplify:  $7y^2 \times 2z - 3z \times 5y^2$

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6. Simplify:  $3a \times 4b + 2c \times 5a$

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7. Simplify:  $5x^2y \times 2x + 3x \times 4x^2y$

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8. Simplify:  $-4p \times 3q - 8pq$

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9. Simplify:  $(-2a^2b) \times (-5ab^3) + 3a^3b^4$

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10. Simplify:  $\frac{1}{3}x \times 12y - 2xy$

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11. Simplify:  $(2a^2b)^3 + 3a^6b^3$

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12. Find an expression for the area of the shape below, made of two rectangles.

Rectangle A has sides  $3x$  and  $4y$ . Rectangle B has sides  $5x$  and  $2y$ .