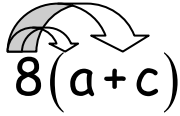


Simplifying by Distributive Property

The distributive property is used when a number is in front of the parenthesis.


$$8(a+c)$$

***Make sure you multiply everything in the parenthesis by the number outside.**

$$8 \times a + 8 \times c$$

$$8a + 8c$$

Or you can use the box method:

a	$+ c$

8

1. $3(x - y) + 2x$

2. $3(2x - 4)$

3. $-5(x - 6)$

4. $2(b - 8a) + 5(b + 4a)$

Solving - Distributive Property

5. $7(n + 1) - 4n = 4$

6. $-7(x - 3) = -14$

7. $8 = 3 + 5(y - 2)$

8. $2(x - 3) - 3(x - 1) = -5$

9. $5(x - 2) - 5x = 10$

10. $3(m + 5) - 3(m + 3) = 6$

11. The length of a rectangle is nine and the width is $(x + 6)$. Find the value of x if the area of the rectangle is 135 cm^2 . ($A = lw$)

12. The length of a rectangle is $(2x)$ and the width is $(x + 2)$. If the perimeter is 40 feet, find the length and width. ($P = 2l + 2w$)

13. The width of a rectangle is (x) and the length is three times the width. Find the width and length of the rectangle if its perimeter is 112 meters.