

Distributive Property... day 2

What does $3(5)$ mean?

What does $3(x)$ mean?

What does $3(5x)$ mean?

What about $3(x + y)$?

shortcut: $3(x + y) = 3x + 3y$

This is the distributive property!

Ex. 1 Simplify

a) $4(2a + b)$

b) $2(4a - 3)$

c) $-4(2a + b)$

d) $-2(4a - 3)$

Ex. 2 Simplify

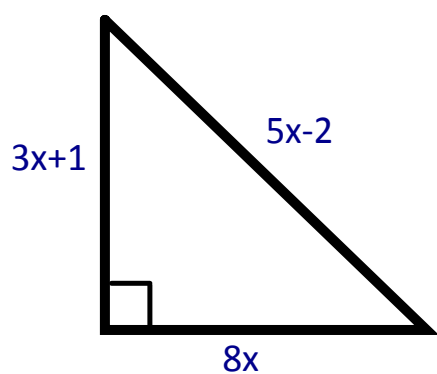
a) $2x(x + 1)$

b) $-3y(4x - 2y)$

c) $4a(2a^2 - 3ab^2) + 5b(a + 2ab)$

d) $6xy(2x^2 - y) - 3y(4x^3 - 5xy)$


Ex. 3: Find the area and perimeter of the right angle triangle.



Ex. 4: Expand and simplify.

$$\frac{2}{3}(3m-2) - \frac{3}{4}(8m-2) + \frac{2}{3}(3m) + \frac{2}{3}(-2) - \frac{3}{4}(8m) - \frac{3}{4}(-2)$$

Homework
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#9, 13, 15bdfh, 16ac, 17, 18

$$a(b+c) = ab+ac$$
A blue diagram consisting of two arrows originates from the letter 'a' in the expression a(b+c). One arrow points to the letter 'b' in the term ab, and the other arrow points to the letter 'c' in the term ac, illustrating the distributive property.