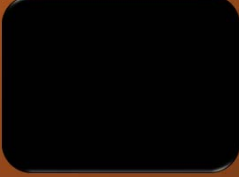



Algebra 1
The Distributive Property

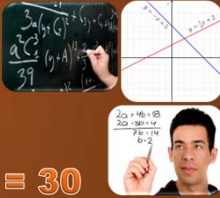
www.MasterMath.info

The Distributive Property
Equivalent Expressions
Like Terms
Coefficient
Constant Terms



[Omnivibe.com](http://www.Omnivibe.com)

$6(2 + 3) = 30$
 $6 \cdot 2 + 6 \cdot 3 = 12 + 18 = 30$
 $y = -3(x + 2)$
Equivalent Expressions
 $y = -3x - 6$



The Distributive Property

$y = 3(x + 2) - x$

$y = 3x + 6 - x$

Variable Term →
 Variable Terms →
 Constant Term →
 Constant Terms →

$y = 2x + 6$

Coefficient

The Distributive Property

Translate the sentence into a math expression, then simplify the expression:

"Twice the sum of 5 and x increased by 4 less than x."

You Try It

Twice the sum of 5 and x increased by 4 less than x.

$2*(5 + x) + (x - 4)$

$= 10 + 2x + x - 4$

$= 10 - 4 + 2x + x$

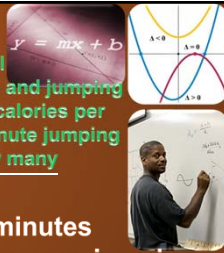
$= 6 + 3x = 3x + 6$

You Try It

You're trying to get into good shape so that you will make the basketball team. Each day you exercise for a total of 30 minutes, running part of the time and jumping rope the rest of the time. You burn 15 calories per minute running and 11 calories per minute jumping rope. If you run (r) for 20 minutes, how many calories will you burn.

You Try 

You're trying to get into good shape so that you will make the basketball team. Each day you exercise for a total of 30 minutes, running part of the time and jumping rope the rest of the time. You burn 15 calories per minute running and 11 calories per minute jumping rope. If you run (r) for 20 minutes, how many calories will you burn.



C
Calories burned is 15 times minutes running plus 11 times minutes rope-jumping

C = calories burned r = minutes run minutes rope-jumping = (30 - r)

$$C = 15r + 11(30-r) \quad C = 15r + 330 - 11r$$

$$C = 4r + 330 = 4(20) + 330 = 80 + 330 = 410$$

You Try 

Test your skills with the
Worksheets and Quizzes at
www.MasterMath.info

