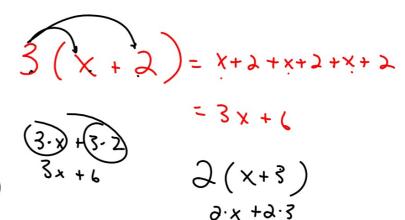
## Basic Algebra 1.4 Use the distributive property to evaluate expressions

distributive property term

→ like terms
coefficient
equivalent expression
simplify (simplest form)



**Examples** 

Simplify each expression.

algebra tiles

$$5(2n+8) = /0 n + 40$$

**Your Turn** 

**a.** 
$$6(a + b)$$

## Examples

Simplify each expression.

8

4x + 9x



a + 7b + 3a - 2b

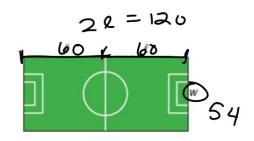
## Your Turn

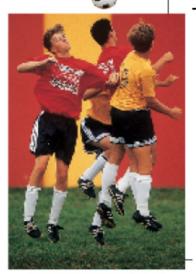
c. 
$$5st + 2st$$

d. 
$$6 + y + 3z + 4y$$



Write an equation representing the area A of a soccer field given its width w and length  $\ell$  as shown in the diagram. Then simplify the expression and find the area if w is 54 yards and  $\ell$  is 60 yards.





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Thes. MET 1.1-1.4