Name:	Date:	
1.5 Rewriting Equations and Formulas		
Essential Question:		
Exploration: There is no exploration for this	section.	
An equation that has or more	is called a	equation.
To rewrite a literal equation, for one variable in terms of the other		
EXAMPLE 1 Rewriting a Literal Equation		
Solve the literal equation $3y + 4x = 9$ for y.		

EXAMPLE 2 Rewriting a Literal Equation

Solve the literal equation y = 3x + 5xz for x.

## Solve the literal equation for y.

**1.** 3y - x = 9 **2.** 2x - 2y = 5 **3.** 20 = 8x + 4y

Solve the literal equation for x.

**4.** y = 5x - 4x **5.** 2x + kx = m **6.** 3 + 5x - kx = y

## EXAMPLE 3 Rewriting a Formula for Surface Area

The formula for the surface area *S* of a rectangular prism is  $S = 2\ell w + 2\ell h + 2wh$ . Solve the formula for the length  $\ell$ .