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Coordinate Algebra	Name:	
	Date:	Class Period:
What is similar about solving the two equations?		
what is owned to our core in the two equations.		
What is different about solving the two equations?		
How is the solution of a literal equation useful?		
Example:		
In the distance formula, $d = rt$, d is,	r is	of speed, and t is
How could you find t if you knew d and r ?		
James will travel 250 miles from Savannah to Atlamiles per hour (mph), how much time will he spend		es at an average speed of 50
	u uriving:	
First: Rewrite the given formula to isolate		
	,	
Second: Substitute the given information into the	formula.	
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Example: Use the information above to calculate how much t	ima Tamas 🕶	Il enand driving if he drives 250
miles at an average speed of 25 miles per hour (mph		it sheng attains it he attacs 720
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## Literal Equations Notes

An  $\underline{equation}$  is a mathematical sentence that contains an  $\underline{equal}$   $\underline{Sig}$   $\underline{(\Xi)}$ .

Example:  $\sqrt{-3}$ 

A <u>formula</u> is an <u>equation</u> that states a <u>rule</u> for the relationship between certain <u>quantities</u>.

Example: A= 1.W

What does A, 1, and w stand for?

A = Area of a rectargle la length was width

## What it means to <u>Solve</u>:

-To solve for  $\chi$  would mean to get  $\chi$  by itself on  $\chi$  side of the equation, with no  $\chi$  's on the other side. ( $\chi$  =  $\chi$ 

-Similarly, to solve for  $\underline{\ \ \ }$  would mean to get  $\underline{\ \ \ }$  by itself on  $\underline{\ \ \ }$  side of the equation, with no  $\underline{\ \ \ \ }$  's on the other side. ( $\underline{\ \ \ \ \ }$ 

## Literal Equations:

-A <u>liferal</u> equation is an equation in which the <u>coefficients</u> and <u>constants</u> have been replaced by <u>variables</u>.

Example: ax+b=c

-When <u>Solving</u> literal equations and formulas, you will <u>follow</u> the same <u>Steps</u> as when solving <u>Specific</u> equations.

-You will always be given an <u>equation</u> or <u>formula</u> and asked to solve for a specific <u>National</u>.

Example: For both equations, solve for x.

$$40 + 3 = 15$$

$$40 = 12$$

$$4 = 3$$

$$4 = 3$$

$$4 = 3$$

$$4 = 3$$

$$4 = 3$$

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What is similar about solving the two equations?

They involve the same steps to Isolate the variable, X

What is different about solving the two equations?

one solution is not a #, it's an expression

How is the solution of a literal equation useful?

Provides a rule for calculating the solution directly.

Example:

In the distance formula, d = rt, d is <u>Cistans</u>, r is <u>rate</u> of speed, and t is <u>fine</u>

How could you find t if you knew d and r? Solve for t

James will travel 250 miles from Savannah to Atlanta. If he drives at an average speed of 50 miles per hour (mph), how much time will he spend driving?

First: Rewrite the given formula to isolate _____.

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i a com

Second: Substitute the given information into the result formula.

d= 250 miles

r= 50 mon

t= d = 250 = 5 hours

Example:

Use the information above to calculate how much time James will spend driving if he drives 250 miles at an average speed of 25 miles per hour (mph).

t=d= 250miles = 10 hours