Solving Literal Equations

Objectives:

...to solve literal equations for a given variable

Assessment Anchor:

NOTES

To solve a literal equation:

- 1. Locate the variable that you want to solve for
- 2. Follow the rules for solving equations to get that variable all by itself

EXAMPLES

1)	Solve for x:	instructions for what to solve for
	$\mathbf{x} + \mathbf{b} = \mathbf{a}$	original equation
	(x) + b = a $-b - b$	locate what you are solving for subtract "b" on both sides
	x = a - b	simplify the equation
2)	Solve for d:	instructions for what to solve for
2)	Solve for d: cd = 10	instructions for what to solve fororiginal equation
2)	Solve for d: cd = 10 cd = 10 c c c	<pre>instructions for what to solve for original equation locate what you are solving for divide both sides by "c"</pre>

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3)	Solve for a:	instructions for what to solve for
	4a - b = c	original equation
	$\frac{4a - b = c}{\frac{+b + b}{4a} = \frac{c + b}{4}}$	locate what you are solving for add "b" to both sides simplify the equation divide both sides by 4
	$a = \frac{c+b}{4}$	simplify the equation
4)	Solve for k:	5) Solve for v:
	k + 20 = t	$\frac{\mathbf{v}}{5} = \mathbf{w}$

6) Solve for m:

2m - p = 11f

7) Solve for y:

xyz + a = 10

