Name Key
Mrs. Roumbos

Date_____
8A Period_____

Do Now

Solve the following literal inequalities:

1) For x:

$$(3)\left(\frac{x-y}{3}\right) \geq (a)(3)$$

$$x - y \geq 3a$$
$$+y \quad +y$$
$$x \geq 3a + y$$

2) For y:

$$2x + 5y \leq 7$$
$$-2x \quad -2x$$
$$\frac{5y}{5} \leq \frac{7-2x}{5}$$
$$y \leq \frac{7-2x}{5}$$

*3) For b:

$$\left(\frac{2}{1}\right)\left(x \geq \frac{1}{2}ab\right)\left(\frac{2}{1}\right)$$

$$\frac{2x}{a} \geq \frac{ab}{a}$$

$$\frac{2x}{a} \geq b \rightarrow$$

$b \leq \frac{2x}{a}$ if $a > 0$
$b \geq \frac{2x}{a}$ if $a < 0$
$a \neq 0$

← B/c you would switch the direction of the symbol when dividing by a negative #

★ always need 3 solutions when dividing by a variable with inequality