

Name : _____

Linear Inequalities

L2S1

A) Observe the inequalities and complete the table.

Inequality	Is the boundary line dashed or solid?	Is the shaded region above or below the boundary line?
$-y + 5 < 3x$		
$4y + 8 \geq -5x$		
$-10x - y > 0$		
$5x + 9y \leq 9$		
$3x > -y - 7$		

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B) Analyze the problem

Boundary line		Inequality
Solid		$-3y \quad \square \quad -10$
Dashed		$-7 \quad \square \quad 8x$
Solid	Below	$7y + 2x \quad \square \quad 1$
Dashed	Above	$6x \quad \square \quad -3 - y$
Solid	Below	$-9x - y \quad \square \quad 4$

Linear Inequalities

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Inequality	Is the boundary line dashed or solid?	Is the shaded region above or below the boundary line?
$-y + 5 < 3x$	Dashed	Above
$4y + 8 \geq -5x$	Solid	Above
$-10x - y > 0$		Below
$5x + 9y \leq 9$		Below
$3x > -y - 7$		Above

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