

Name : _____

Linear Inequalities

L2S2

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?
$9x + 4y \geq -5$		
$-3x - y > 8$		
$y - 2 \leq -2x$		
$-6x \geq -10 - 7y$		
$y - 8x < 0$		

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B) Analyze the problem

Boundary line		Inequality
Dashed		$-6x \quad \square \quad 3$
Solid		$+4x \quad \square \quad -7$
Dashed	Below	$-9x - 10 \quad \square \quad -y$
Solid	Below	$x \quad \square \quad 6 - 5y$
Dashed	Above	$-5 + y \quad \square \quad 7x$

Linear Inequalities

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?
$9x + 4y \geq -5$	Solid	Above
$-3x - y > 8$	Dashed	Below
$y - 2 \leq -2x$		Below
$-6x \geq -10 - 7y$		Above
$y - 8x < 0$		Below

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B) Analyze the problem

Boundary line		Inequality
Dashed		$-6x < 3$
Solid		$-2x + 4x \geq -7$
Dashed	Below	$-9x - 10 < -y$
Solid	Below	$x \leq 6 - 5y$
Dashed	Above	$-5 + y > 7x$