

Name : \_\_\_\_\_

## Linear Inequalities

L1S3

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?
$y > -9$		
$y \geq 7x$		
$y \leq 6x - 3$		
$y < -5x - 4$		
$y \geq x + 1$		

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B) Analyze the problem

Boundary line		Inequality
Solid		<input type="checkbox"/> $4x - 6$
Dashed		<input type="checkbox"/> $-x$
Solid	Below	$y$ <input type="checkbox"/> $-8x + 5$
Dashed	Above	$y$ <input type="checkbox"/> $x + 3$
Dashed	Below	$y$ <input type="checkbox"/> $-x - 9$

**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?
$y > -9$	<b>Dashed</b>	<b>Above</b>
$y \geq 7x$	<b>Solid</b>	<b>Above</b>
$y \leq 6x - 3$		<b>Below</b>
$y < -5x - 4$		<b>Below</b>
$y \geq x + 1$		<b>Above</b>

B) Analyze the problem

Boundary line		Inequality
Solid		$\boxed{\geq}$ $4x - 6$
Dashed		$\boxed{<}$ $-x$
Solid	Below	$y \boxed{\leq} -8x + 5$
Dashed	Above	$y \boxed{>} x + 3$
Dashed	Below	$y \boxed{<} -x - 9$

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