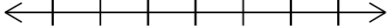
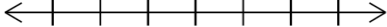




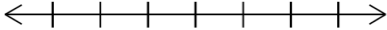
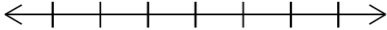
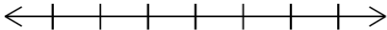
Name _____

Solving Inequalities

Solve each inequality, then write the answer in bracket notation, set-builder notation, and graph the solution on a number line.

	Solve	Bracket Notation	Set-builder Notation	Number Line
1.	$7(3x + 4) + 2 < 156$			
2.	$116 \geq -8(6x + 5) - 4x$			
3.	$-6(2x + 6) > -132$			

4.	$2 - 3(3x + 7) \geq -82$			
5.	$6(-7x + 7) \geq 126$			
6.	$126 \leq 7(8 + 5x)$			
7.	$7(3 + 6x) \geq 147$			

8.	$-30 > 6(7 + 2x)$			
9.	$-6x - 3(3x + 6) > 102$			
10.	$-4(3x - 5) - 6x \leq 146$			

Using the question numbers, match each answer with colors below. Color the picture accordingly.

Purple: $x \geq 3$

Blue: $x \leq 7$

Blue: $x < -6$

Purple: $x < 8$

Orange: $x < 6$

Red: $x < -8$

Green: $x \geq -7$

Green: $x \leq -2$

Red: $x \geq -3$

Orange: $x \geq 2$

