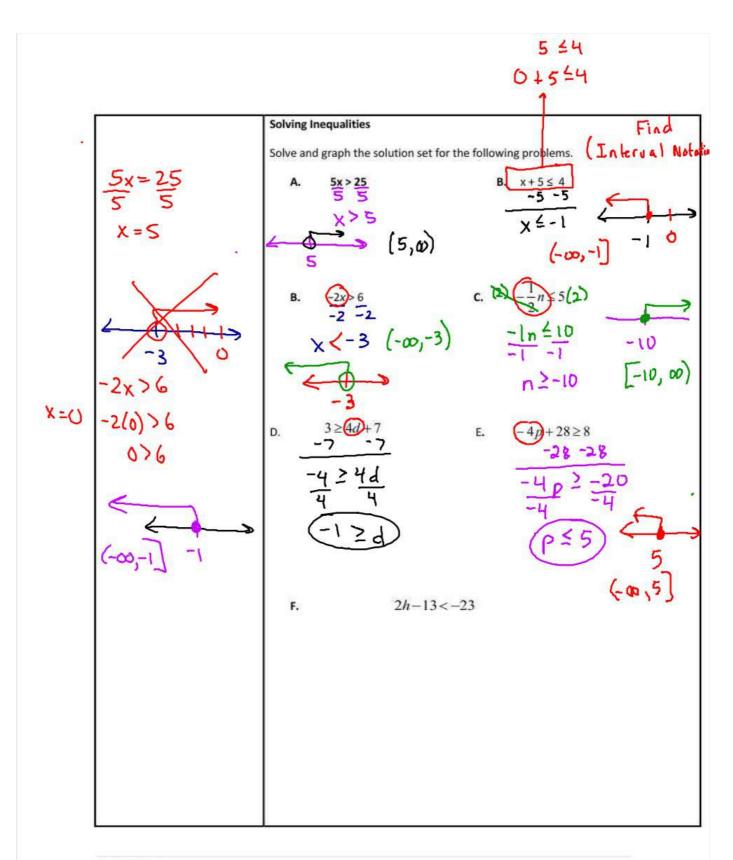
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Linear Unit Part 5: Solving Inequalities

	Solving Inequalities			
	Vocabulary:			
	Inequality is a mathematical sentence that compares two unequal expressions.  Here is a chart of words or phrases associated with the inequality symbols:			
Interval -	(-00, 2)	(-00,2)	[2,00)	(2.00)
Notation	graph left	graphleft	graph right	graph right
/Inches	x < 2		"x ≥ 2	x > 2
> x	x less than	X less than		x greater
		or equal to	than or	than
	open dot	closed dot	equal to	open dot
		Closed dol	closed dot	
	>x	٤×	≤ x	< x
	Open dot means the number is not shaded.			
	<del>← ⊕ → →</del> 5			
	Closed dot means the number			
	1			



## Practice: Solve and graph the following inequalities, make your own number line.

1. 
$$-5m < 20$$

$$2. \qquad \frac{j}{6} \le 0$$

3. 
$$\frac{5a}{5} > \frac{-10}{5}$$

4. 
$$(3) \frac{c}{3} \ge 6(-3)$$

5. 
$$m+6>2$$

6. 
$$y-3 < -4$$

7. 
$$4x+11 \ge 19$$

8. 
$$6 < \frac{x}{-2}$$

10. 
$$5m-3>-18$$