

Name: _____

Date: _____

Graph the boundary line, then shade. Solid for $\leq$ or $\geq$, dashed for $<$ or $>$. Test a point! Last two are challenge problems!

1. Is $(2, 3)$ a solution of $y > x + 1$?

show your work

2. Is $(1, 5)$ a solution of $y > x + 1$?

show your work

3. $y \leq 2x + 4$: solid or dashed boundary?

show your work

4. $y < -x + 3$: solid or dashed?

show your work

5. Test $(0,0)$ in $y < 3x + 2$. Shade that side?

show your work

6. Is $(4, 1)$ a solution of $y \geq x - 3$?

show your work

7. Graph $y \geq x - 2$ on grid paper: line type and shading?

show your work

8. Which points satisfy $y \leq -2x + 6$: $(0,0)$, $(4,0)$, $(0,7)$?

show your work

- 9.** Write the inequality: 'the number of ^{★ CHALLENGE} \$3 snacks (x) and \$2 drinks (y) can total at most \$18.'

show your work

- 10.** For $3x + 2y \leq 18$: can you buy 4 ^{★ CHALLENGE} snacks and 3 drinks? 2 snacks and 7 drinks?

show your work