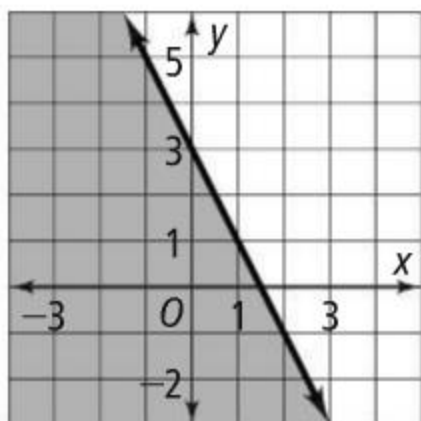
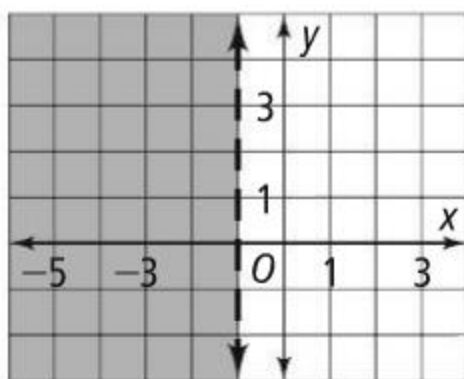


12. No; 4 is not less than 3.

13.



14.

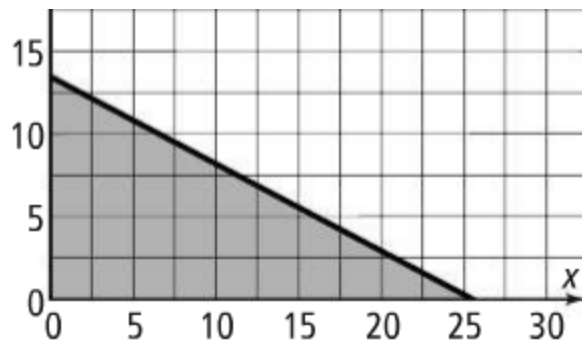


15. $y < \frac{1}{2}x - 1$

17. Since the inequality is already solved for y , the $<$ symbol means you should shade below the boundary line. All of these shaded points will make the inequality true.

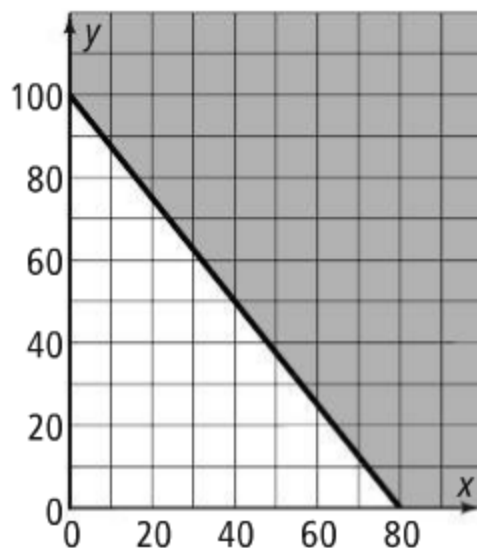
18. $y \geq 5x + 1$

19. $250x + 475y \leq 6400$, where x represents the number of refrigerators and y represents the number of pianos.



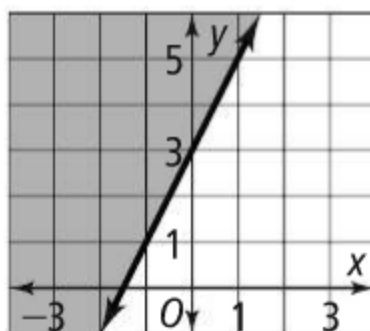
Yes; the point $(12, 8)$ is not in the shaded region; actual solutions include only points representing whole numbers of refrigerators and pianos.

20. a. Let $x =$ hours at the cafe and let $y =$ hours at the market; $10x + 8y \geq 800$.



- b. No; the point $(30, 60)$ does not lie in the shaded region of the graph.

21. The student graphed $y \leq 2x + 3$ instead of $y \geq 2x + 3$. The other side of the line should be shaded.



22. You could not use the point $(0, 0)$ in the case that $(0, 0)$ lies on the boundary line. If that were the case, you would have to choose any other point that was not on the boundary line.