13. a. Answers may vary. Sample: Aisha will move 3 units down and 4 units to the right to find the second point. Carolina will move 3 units up and four units to the left to find the second point.
b. Yes; they both find two points on the same line using the equation.
14. $y=-1.25 x-4.25$
15. The $y$-intercept should be plotted at $(0,-6)$, not $(0,6)$. The second point would be at
$(4,-9)$.
16. $y=-\frac{3}{4} x+5$
17. $b=6, n=2.5, p=4.5$
18. 


19.

20.

21.

22.

23.

24. $y=-\frac{1}{3} x+1$
25. $y=2 x+3$
26. Use two points, such as $(0,3)$ and $(1,1)$, shown on the line to find the equation of the line.

The slope is $m=\frac{1-3}{1-0}=-2$.
The line intersects the $y$-axis at $(0,3)$, so the $y$-intercept $b$ is 3 .
The equation of the line in slope-intercept form is $y=-2 x+3$.
27. $y=3 x-3$
28. $y=\frac{1}{2} x+1$
29. $y=-2 x-5$
30. $y=-\frac{1}{2} x+2$
31. $y=\frac{8}{3} x-\frac{2}{3}$
32. $y=2 x-\frac{3}{4}$
33. $y=-1.5 x+4.5$
34. $y=-4 x+25$; The $y$-intercept represents the total distance, 25 miles, Jordan has to go from the start of the trail.
35. Plan A: $y=-60 x+660$; Plan B: $y=-70 x+840$; Plan A will take less time. Even though the payments are larger for Plan B, the down payment reduces the total payment time from 12 weeks to 11 weeks.
36. $y=-6 x+8$
37. Luis's ride: $y=-7.5 x+15$; Raul must ride at a speed of 5 miles per hour.
38. D, E
39. C
40. Part A $y=-\frac{5}{8} x+15$

Part B The $y$-intercept gives the level when the dispenser is full, which is 15 inches.

Part C No, the level will be at $3 \frac{3}{4}$ inches after 18 hours.
Substitute 18 for $x$ in the equation gives $y=3 \frac{3}{4}$.

