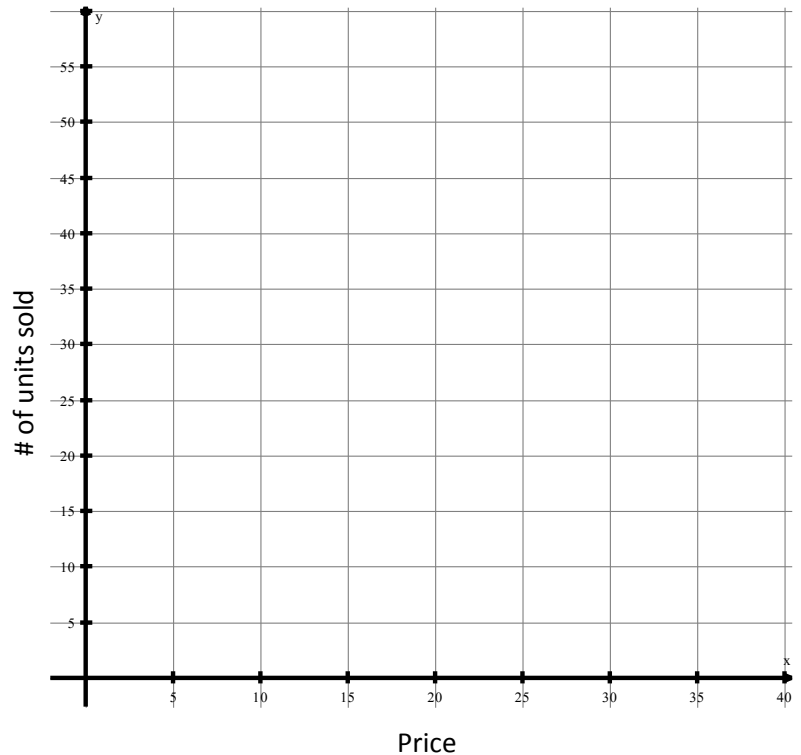


Slope and Y-Intercept

A vineyard is investigating pricing a new wine they've bottled. This data shows the price of a bottle of this wine and the number they sold when they priced the bottle at that price.

Cost	# Units Sold (Demand)
\$14.00	46
\$16.00	40
\$18.00	34



- Graph the points showing the demand of the wine at the given prices.
- Find the equation of the line through your points.
- Draw in a rise and a run on your graph. Put in numbers (may be positive or negative!) next to your rise and run.
- Match the run to the x-axis and the rise to the y-axis. Then write a sentence with the rise # and run # that explains the meaning of the slope for this problem.
- Write the y-intercept as a point. (,). Fill in the blanks with what each number stands for.
- Now, use what you wrote above to interpret the meaning of the y-intercept in the context of this problem.
- Does the y-intercept make sense here? (Is this data really linear everywhere?) Why or why not?
- Use your equation to predict the number of bottles sold if the price is \$21.00.