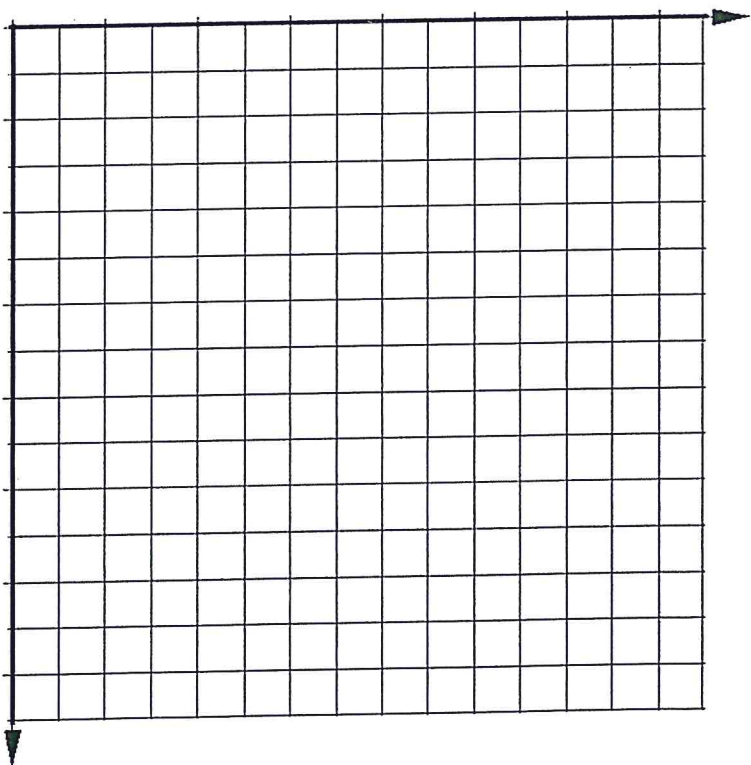


X	Respiration(breaths/min)	50	30	25	20	18	16	14
Y	Heart Rate (beats/min)	200	150	140	130	120	110	100

1. Graph this data. Use a scale that leaves enough room to predict into the future.
2. What kind of relationship is there between these two sets of data?
3. Draw a trendline.
4. predict the Respiration of a Hear Rate of 170.
5. predict the Heart Rate for a Respiration of 80.
6. Write the equation of your trendline in Slope-Intercept form.



X	Respiration(breaths/min)	50	30	25	20	18	16	14
Y	Heart Rate (beats/min)	200	150	140	130	120	110	100

1. Graph this data. Use a scale that leaves enough room to predict into the future.
2. What kind of relationship is there between these two sets of data?
3. Draw a trendline.
4. predict the Respiration of a Heart Rate of 170.

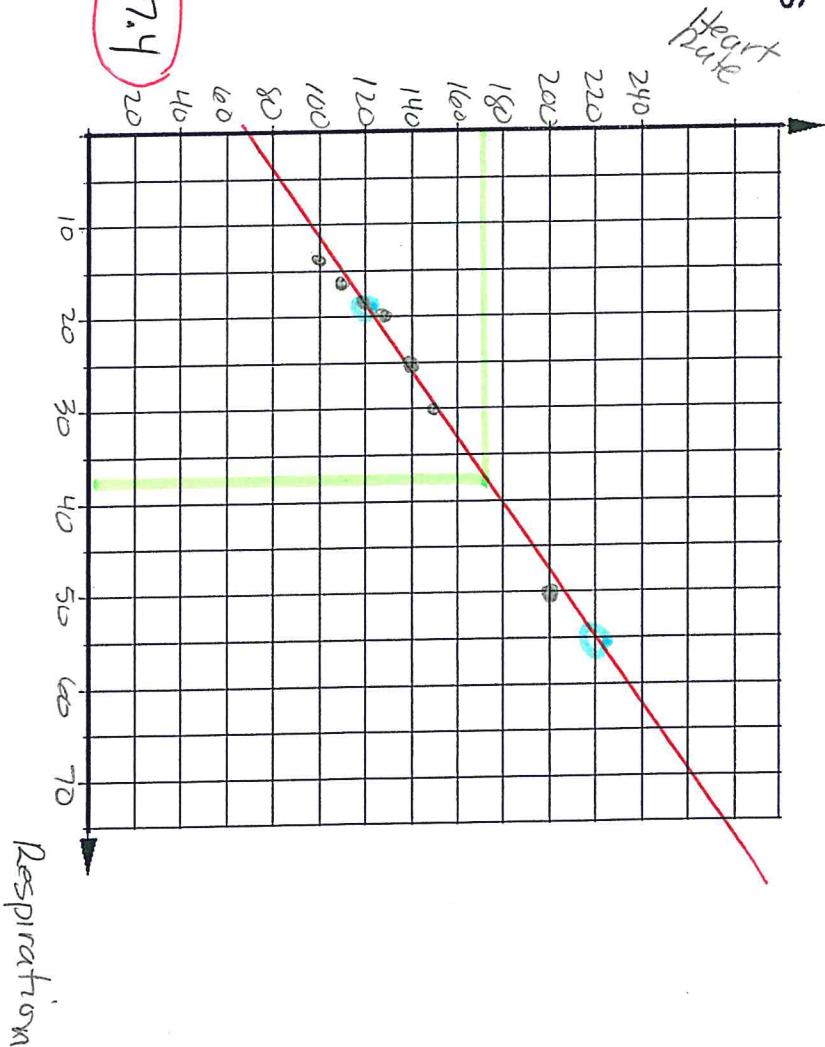
≈ 37

5. predict the Heart Rate for a Respiration of 80. *off the graph*
6. Write the equation of your trendline in Slope-Intercept form.

using the eq from #6 $2.70(80) + 71.4 = 287.4$

$(18, 120)$ $(55, 220)$

$$m = \frac{220 - 120}{55 - 18} = \frac{100}{37} \approx 2.70$$



$$\begin{aligned} y - 120 &= 2.70(x - 18) \\ y - 120 &= 2.70x - 48.6 \\ + 120 & \end{aligned}$$

$$y = 2.70x + 71.4$$