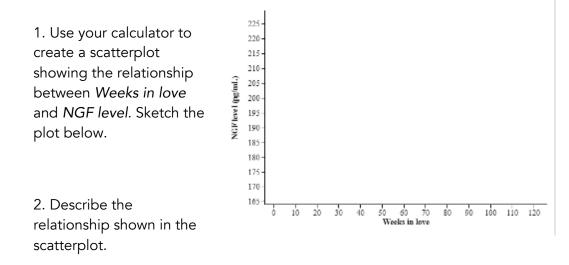




Researchers found that nerve growth factor (NGF), a neurotrophin found in blood plasma, has higher concentrations in people that are newly in love than in those who have been in a relationship for a longer time. To understand this relationship, a group of volunteers who are in relationships were asked how long they have been in love (in weeks). Then they measured the NGF levels in their blood. The data are given below.



3. Write the regression equation for predicting <i>NGF level</i> from the number of	
Weeks in love.	

- 4. Find r^2 and interpret it in context.
- 5. Create a residual plot and sketch it below. What does this tell you about the relationship?

