Expert Group 4 – Scatterplots

Watch LearnZillion https://learnzillion.com/lesson_plans/5829 .

Answer the questions below about scatterplots.

1. **What is a scatterplot?**

   A scatterplot is a graphical display of two sets of data created by plotting points in a coordinate plane.

2. **What is a common misunderstanding about scatterplots?**

   Every scatterplot has a pattern.

3. **What are the steps to creating a scatterplot?**

   1. Determine your *x*- and *y*-axis labels and units.
   2. Plot the points.
   3. Look to see if there are patterns in the data.

      Linearity – Is the data pattern in a line?

      Slope – Do the data go up from left to right (positive) or go down from left to right (negative)?

      Strength – How close are the data points to each other?

   4. Look for unusual features, such as clusters, gaps and outliers.

4. **When are scatterplots used?**

   Scatterplots are used to relate two sets of data.

5. **What does linearity mean in a scatterplot?**

   Linearity means the data is forming a line.

6. **What does slope refer to in scatterplots?**

   Slope tells you if the data is going up or going down when read from left to right.

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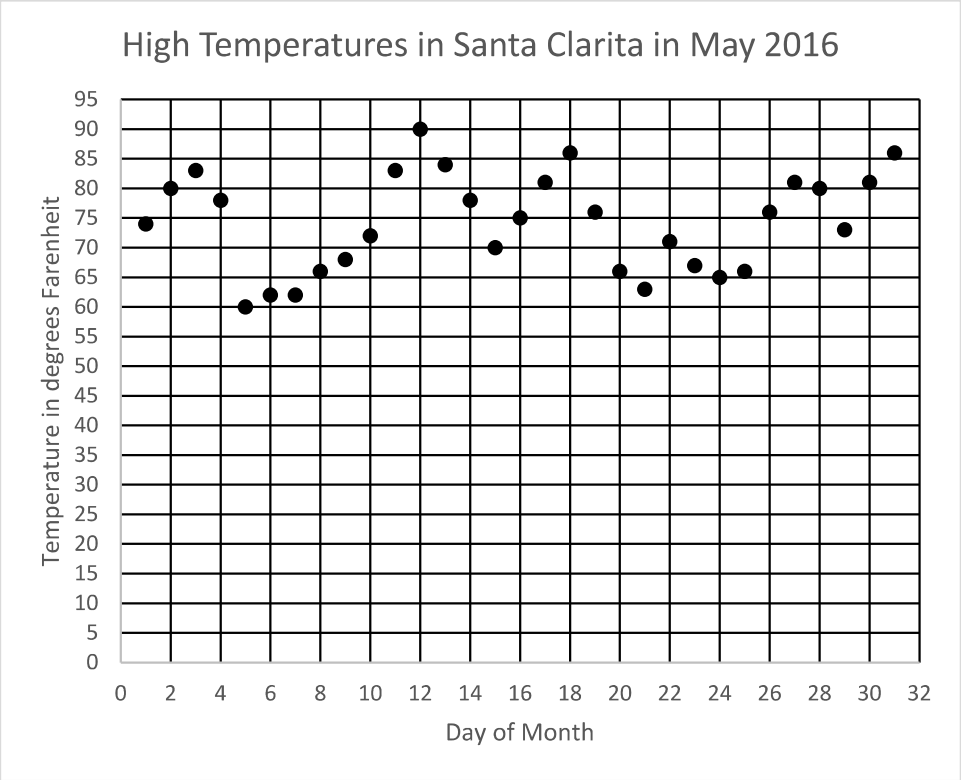
7. When is the relation between variables weak? When is it strong?

A weak relation between variables happens when the data is not near each other or widely spread. A strong relationship is when the data is concentrated around a line or curve.

8. Create a scatterplot of the data below.



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