***MAP4C – Using Data to Make Predictions***

Data from the past can help us make predictions about the future. Here’s the process:  
(Graph 🡪) Data 🡪 Scatterplot 🡪 Regression 🡪 Equation 🡪 Prediction 🡪 Conclusion  
For each of the graphs, use the process to make required predictions. Use Desmos to help make your predictions.

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| --- | --- | --- |
| GRAPH: | | |
| DATA (INCLUDE UNITS):   |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  | | | |
| REGRESSION TYPE:  REGRESSION RESULTS: | REGRESSION EQUATION: | |
| PREDICTION FOR DEPENDENT VARIABLE:  Predict how much wind energy was produced in 2017. | PREDICTION FOR INDEPENDENT VARIABLE:  Predict when there will be 700 thousand megawatts produced. | |
| CONCLUSION: | CONCLUSION: | |
| GRAPH: | | |
| DATA (INCLUDE UNITS):   |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  | | | |
| REGRESSION TYPE:  REGRESSION RESULTS: | REGRESSION EQUATION: | |
| PREDICTION FOR DEPENDENT VARIABLE:  Predict how many barrels per day were imported in 2013. | PREDICTION FOR INDEPENDENT VARIABLE:  Predict when there were 4 million barrels per day imported. | |
| CONCLUSION: | CONCLUSION: | |
| GRAPH: | |
| DATA (INCLUDE UNITS):   |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  | | |
| REGRESSION TYPE:  REGRESSION RESULTS: | REGRESSION EQUATION: |
| PREDICTION FOR DEPENDENT VARIABLE:  Predict the suicide rate if a state has 80% gun ownership. | PREDICTION FOR INDEPENDENT VARIABLE:  Predict the gun ownership if the suicide rate is 18%. |
| CONCLUSION: | CONCLUSION: |
| GRAPH: | |
| DATA (INCLUDE UNITS):   |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  | | |
| REGRESSION TYPE:  REGRESSION RESULTS: | REGRESSION EQUATION: |
| PREDICTION FOR DEPENDENT VARIABLE:  Predict the cost of bacon in 2016. | PREDICTION FOR INDEPENDENT VARIABLE:  Predict when the cost of bacon will reach $15/pound. |
| CONCLUSION: | CONCLUSION: |