Mathematical Investigation Process

# Step 1 – Clarify the Problem

**Read & understand what you have to do**

* What am I asked to find?
* Can I rephrase the question in my own words?
* What information is provided?
* Is there enough information available to help me solve the problem?

# Step 2 – Design & Implement a Plan

**Sound familiar?**

Statistical Investigation Process is based on this.

* Choose an appropriate strategy to solve the problem
  + Formulas to use
  + Equipment / tools needed
* Collect the data
* Collate / summarize the data

# Step 3 - Select and apply appropriate graphical or numerical techniques

* Carry out your plan
* Numerical:
  + Do the maths, showing all working.
  + Does it make sense?
* Graphical
  + Tables
  + Graphs: scatterplots, line graphs, bar graph, etc.

# Step 4 - Interpret the results and communicate findings

* Interpret the results of this analysis and relate the interpretation to the original questions and communicate findings in a systematic and concise manner.
* Answer the questions you posed in Step 1
* Check your answer
  + Any ‘silly’ errors or mistakes?

**INVESTIGATION – Part A**

Complete the Activity on page 88 (new) or 98 (old) of your textbook.

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