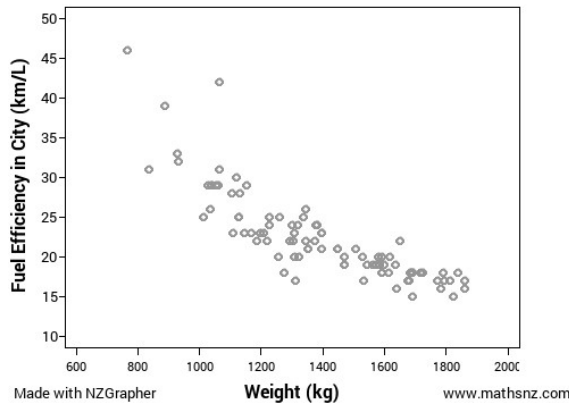**Part 4.1: Trend**

The first comment we need to make is about the trend. There are three statements we need to make about the trend.

- How strong the trend is: weak, moderate, strong (or somewhere in between),
- If the trend is positive or negative (does it go up or down) and
- Is the trend linear (most circumstances we look at – forming a straight line) or non-linear.
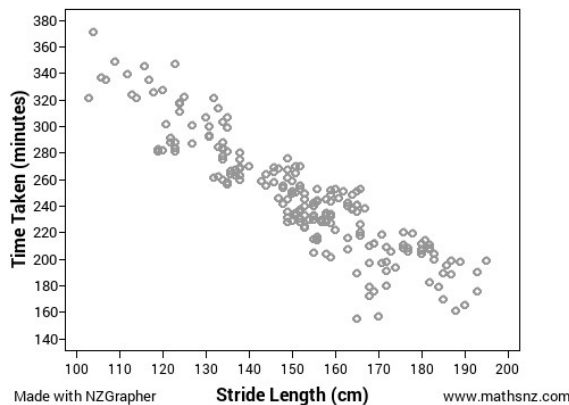
Write a trend statement for each of the datasets. Again the first one has been done for you.

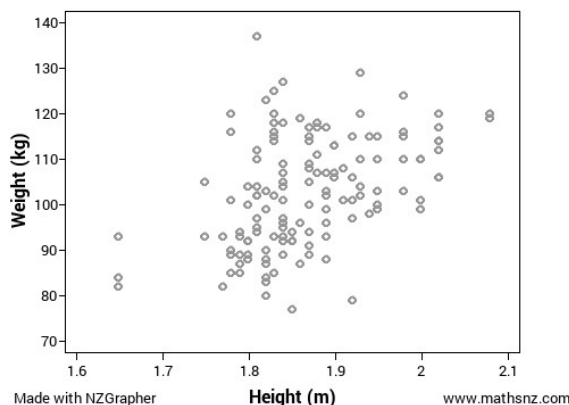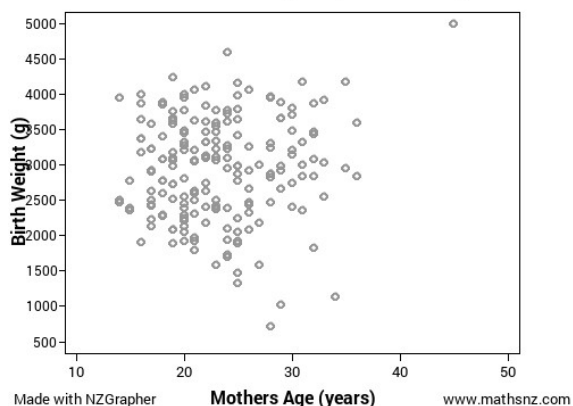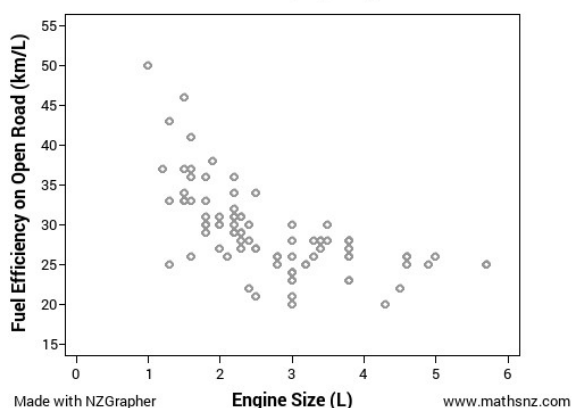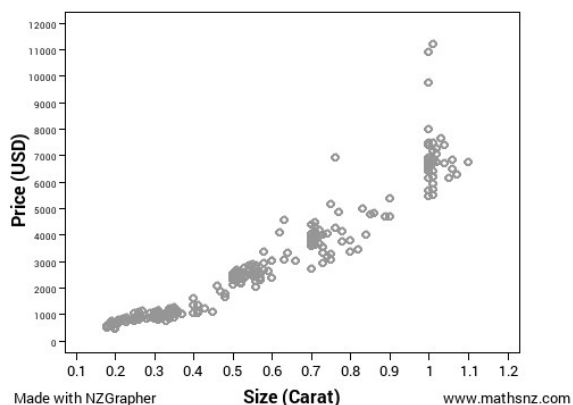|	
1. Fuel Efficiency by Weight Fuel Efficiency in City (km/L) vs Weight (kg) Made with NZGrapher — www.mathsnz.com	From the graph I can see a strong negative linear relationship between the weight of a car and the fuel efficiency of the car.
2. Marathon Time by Stride Length Time Taken (minutes) vs Stride Length (cm) Made with NZGrapher — www.mathsnz.com	
3. Rugby Players Weight by Height Weight (kg) vs Height (m) Made with NZGrapher — www.mathsnz.com	

4. Babies Birth Weight by Mother's Age

5. Fuel Efficiency by Engine Size

6. Diamond Price by Size

Part 4.2: Association

Association is about explaining why the relationship is either positive or negative, and it is important to link back to the context.

Discuss the association for each of the sets of data, the first one has been done for you