

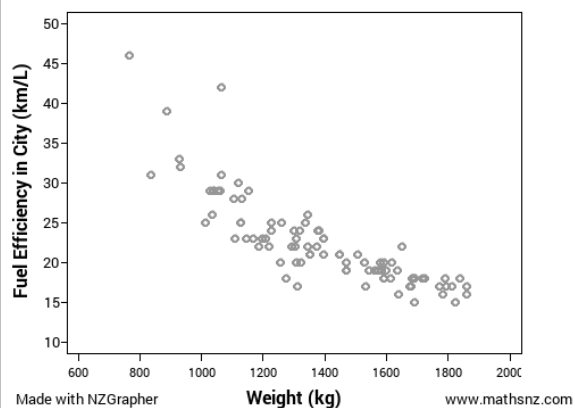
## Part 1: Problem

For each of the graphs below write a good relationship question. A question should have:

- Why you are interested in looking at this relationship (i.e. the context).
- What you are trying to find a relationship between.
- What you are planning on predicting (what is on the y-axis).

You should be referencing your context (i.e. research – it doesn't matter how you reference, just that you do... using footnotes is normally easiest). The first one has been done for you.

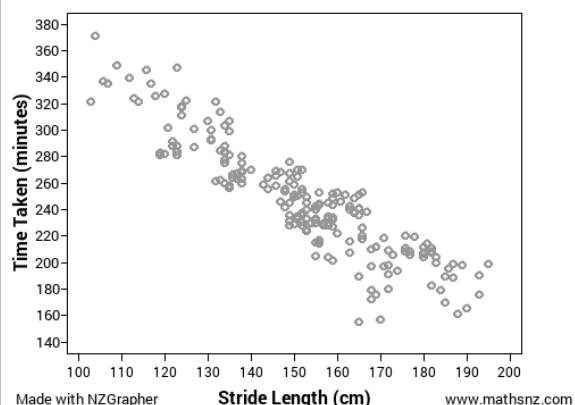
**1. Fuel Efficiency by Weight**



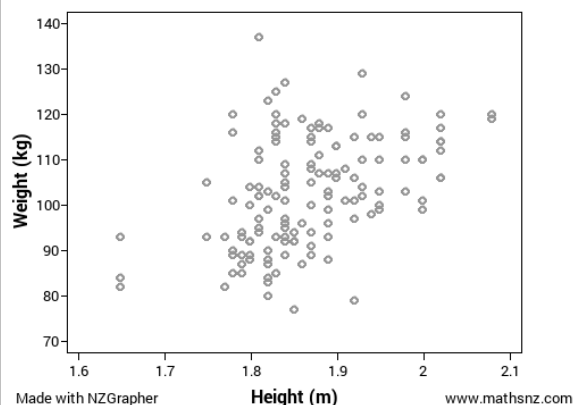
I am looking at buying a car and I have heard that heavy cars use more petrol<sup>1</sup>. Therefore I wonder if there is a relationship between the weight of a car and the car's fuel efficiency for the purpose of predicting the fuel efficiency.

1. [http://www.theaa.com/motoring\\_advice/car-buyers-guide/cbg\\_emissions.html](http://www.theaa.com/motoring_advice/car-buyers-guide/cbg_emissions.html)

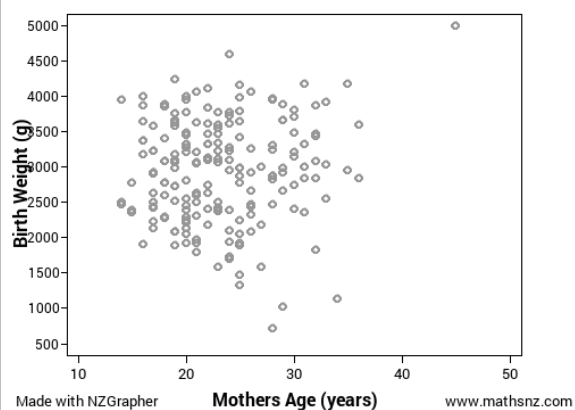
**2. Marathon Time by Stride Length**



**3. Rugby Players Weight by Height**



#### 4. Babies Birth Weight by Mother's Age



#### 5. Fuel Efficiency by Engine Size



#### 6. Diamond Price by Size

