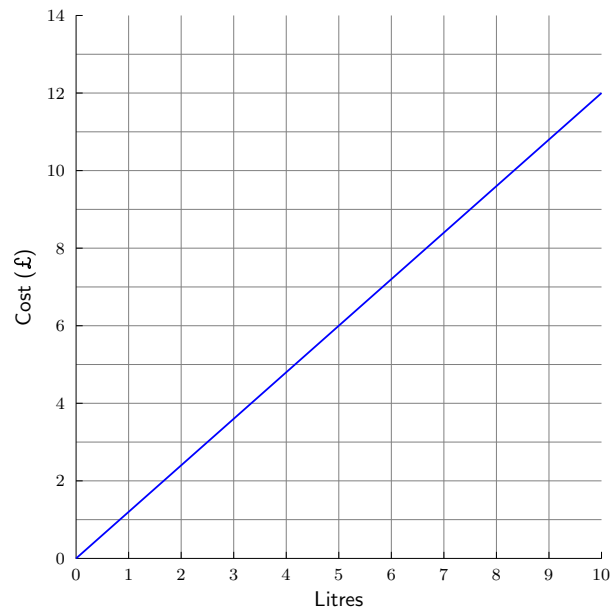


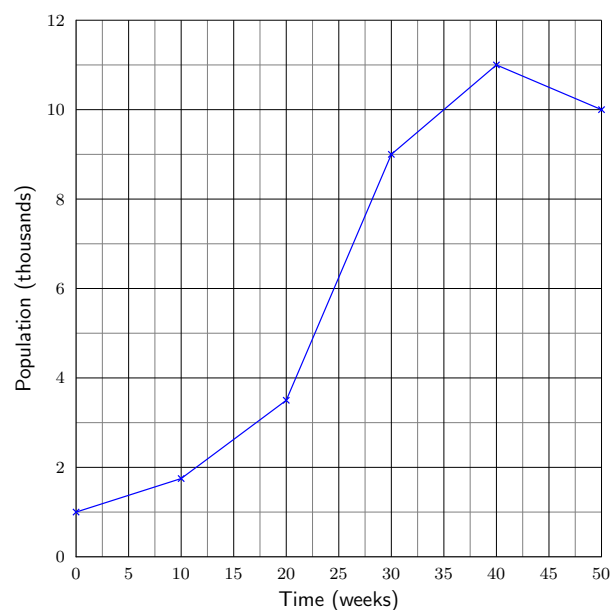
Estimation using Graphs



- i. The graph below shows the cost of a tank of petrol, depending on how many litres are bought.



- Using the graph, determine the cost of 5 litres of petrol
 - Sarah has £10 to spend and would like to buy as much petrol as possible. How many full litres can she buy?
 - Using the gradient of the graph, determine how much each litre of petrol cost
- ii. A researcher has been studying the population size of puffins on the Farne Islands in Northumberland. She has estimated the number of birds every 10 weeks. Below is a graph showing the estimated population size across time.



- Using the graph, estimate the number of puffins on the Farne Islands after 35 weeks
- Estimate how many weeks it took for the population reach 6,000 birds
- Estimate the gradient of the line between weeks 30 and 40