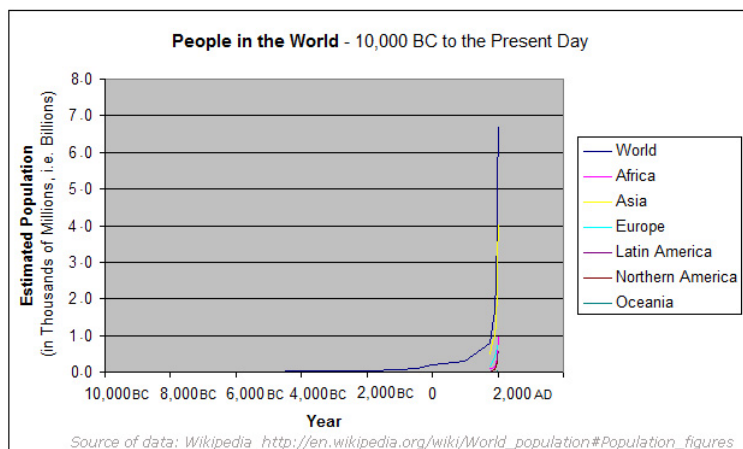


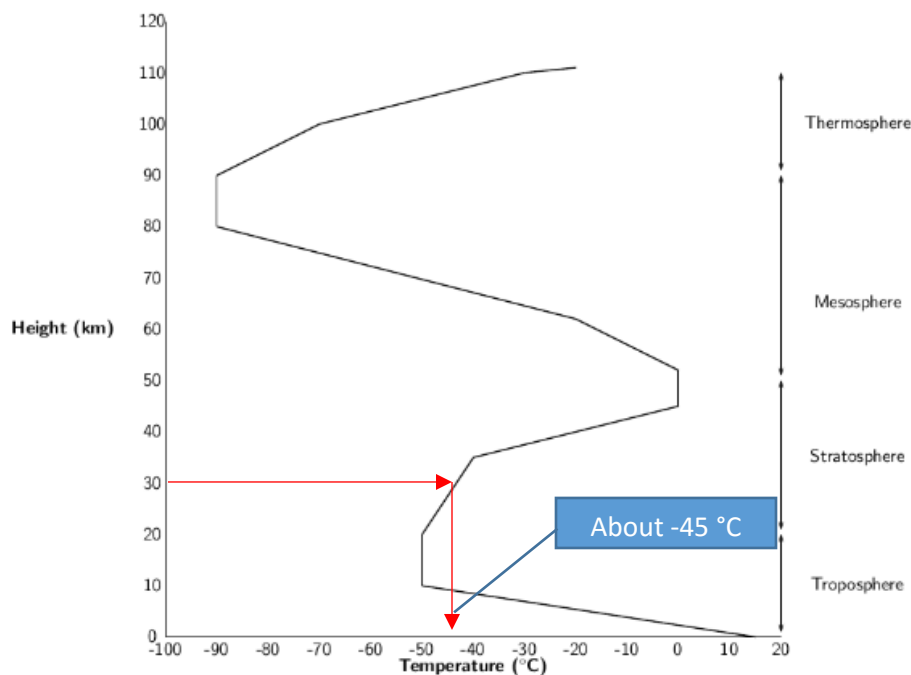
Interpreting Graphs

In the last tutorial, you read that you can infer different trends in line graphs. For example, according to the graph below, the estimated population of people in the world is growing at a non-constant rate. Later, you will learn that we call this exponential growth.



Mankind believed to have existed for between 1.0 - 2.5 million years (graph only shows from 10,000 years ago) but no significant population until just 2,500 years ago, then a **sudden & dramatic increase very recently!**

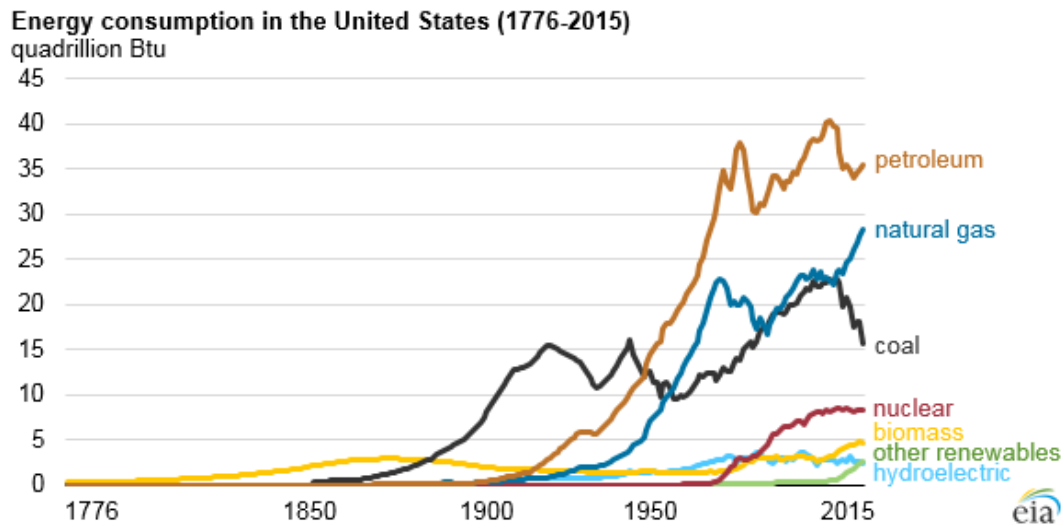
You can also determine one measurement from the other variable using a line graph. For example, what do you expect the temperature to be at 30 km about the Earth?



(Image source: <http://cnx.org/contents/e342bb59-7b62-4456-a460-e74574cd371f@2>)

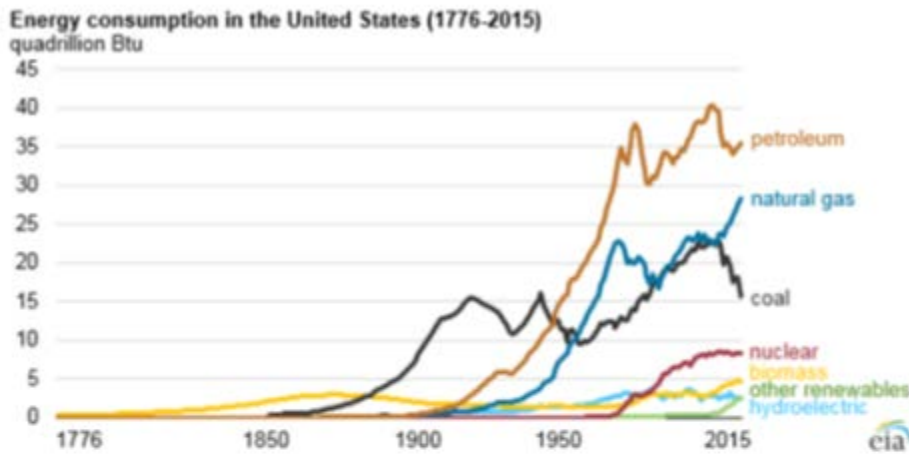


Answer the following questions based on the graphs provided below. Use the key provided to check your answers.



(Source: <https://www.eia.gov/todayinenergy/detail.php?id=26912>)

1. Describe what this graph demonstrates.
2. What was the energy consumption from coal in 1910?
3. Which source of energy was the largest in 1950?
4. Which source has seen the biggest change?
5. Which source has seen the smallest change?



1. Describe what this graph demonstrates.

The energy consumption has increased at a non-constant rate

2. What was the energy consumption from coal in 1910?

About 14 quadrillion Btu

3. Which source of energy was the largest in 1950?

Petroleum and Coal

4. Which source has seen the biggest change?

Petroleum, natural gas

5. Which source has seen the smallest change?

Other renewables