Population Changes Extra Challenge

I can construct line graphs and use these to solve problems.

Decide on a suitable scale and create a graph on squared paper to show the population data for Twinklchester. Remember to include all the correct titles and labels. Use your graph to answer the questions.

Year	1911	1921	1931	1941	1951	1961	1971	1981	1991	2001
Population of Twinklchester (millions)	7.2	7.4	8.1	no data	8.1	8	7.4	6.6	6.7	7.1

1. Over a 20-year period, the population of Twinklchester fell by approximately 1.4 million people. Between which years did this happen?

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2. What was the difference in the population of Twinklchester in 1911 compared to 2001?

   _____

3. What do you estimate the population might have been in 1941? How accurate do you think your estimate is?

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   _____

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Population Changes Extra Challenge **Answers**

1. Over a 20-year period, the population of Twinklchester fell by approximately 1.4 million people. Between which years did this happen?

    The population feel by 1.4 million people between 1961 and 1981 because the difference between 8 and 6.6 is 1.4.

2. What was the difference in the population of Twinklchester in 1911 compared to 2001?

    The difference is 0.1 million – this is a decrease in population.

3. What do you estimate the population might have been in 1941? How accurate do you think your estimate is?

    Children should use the line on the graph to estimate that the population in 1941 was 8.1 million. They should explain their reasoning about the accuracy of their estimate. They may make reference to the Second World War in the 1940s potentially reducing the population because many people would have left to join the armed forces.

A Line Graph to Show the Population of Twinklchester from 1911 to 2001