Statistics 1 Solution Bank



Chapter review

 Cheaper to use Easier to use They enable predictions to be made Help improve the understanding of our world Help to see how certain changes in variables will affect the outcomes Help simplify complex situations

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Advantages	Disadvantages
They are relatively quick	Simplification of a real-
and easy to produce	world situation may cause
	errors as the model is too
	simplistic
They help enable	The model may work only
predictions to be made	in certain conditions

- **3** The answer could be, but is not limited to: 'Climate data can sometimes be too large to investigate thoroughly as it can be too time consuming, too expensive and logistically difficult to investigate. As a result, mathematical modelling can be used to simplify the model, but still give meaningful results.'
- **4** 1. Some assumptions need to be made to ensure the model is manageable. These include that birth and death rates.
 - 2. Plan a mathematical model which will include mathematical models and diagrams
 - 3. Use this model to predict the population over a period of years
 - 4. Include and collect new data that match the conditions of the predicted values.