

# Solutionbank S1

## Edexcel AS and A Level Modular Mathematics

### Mathematical models in probability and statistics

#### Exercise A, Question 1

**Question:**

Give one advantage and one disadvantage of using a mathematical model.

**Solution:**

Mathematical models are quicker and cheaper to produce.

But the model is only a simplification and does not include all aspects of the real problem.

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### Mathematical models in probability and statistics

#### Exercise A, Question 2

**Question:**

Describe briefly the process of refining a mathematical model.

**Solution:**

Predictions based on the model are compared with observed data.

In the light of this comparison the model may be adjusted (refined).

The process of collecting observed data and comparing with revised prediction from the model is repeated.

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