Statistics 1   Solution Bank

Exercise 1A

1 Statistical tests provide a clear and objective means of deciding the differences between a model's predictions and experimental data. These tests will show if and how the model can be refined even further.

2 Predictions based on the model are compared with the experimental data. By analysing these, the model is adjusted and refined. The process is repeated.

3 Stage 1: The recognition of a real-world problem.
Stage 4: Experimental data is collected from the real world.
Stage 6: Statistical concepts are used to test how well the model describes the real-world problem.