

Pearson Edexcel International Advanced Level

Applied ICT

International Advanced Level Unit 3: The Knowledge Worker

May 2017
Scenario

Paper Reference
WIT03/01

The scenario should be distributed to candidates at least three working weeks before the examination.

Practice files: KoolKiwi_practice, Timings_practice

This scenario should be used for the purposes of preparing candidates for the examination. This copy **must not** be taken into the examination. The information contained in the scenario will be included in the examination paper.

Further details are in the Instructions of the Conduct of Examinations (ICE), available from the Edexcel website for this qualification.

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Pearson

Scenario

The Queen of the Rocks

Since its rediscovery 15 years ago the trilogy 'The Queen of the Rocks' has become a sensation. Written by Wallace Bacon, it plots the adventures of an imp, Princess Eareal, and her two friends, Ossibal and Ortant. They set out to find the evil sorceress, Ervios, who has cast a spell on their home village, Tiffany Dell.

Following the success of the books and their epic nature, the successful director Jack Peterson decided to make three films. Each of the films was based on a book in the trilogy, so he decided to use his home country New Zealand to provide the setting.

The first two films were a box office success. The stunning scenery of New Zealand was one of the factors that made the first two films more popular than the books.

Before the release of the third film in the series, the New Zealand Tourist Board noticed an influx of tourists who wanted to visit the films' locations. The tourist board improved access to the film sites and persuaded the film company to leave behind some of the props. They provided guides, rebuilt sets and put in additional attractions at some of the sites.

'Kool Kiwi Tours' is a British-based company that specialises in New Zealand holidays. Their tour designer, Emma Babb, has been given the task of designing a two-week 'The Queen of the Rocks Tour', visiting as many of the sights as feasible. Emma has contacted an airline company to see which aircraft are available for charter flights. After discussion with the airline, she has decided to fly from Heathrow to Auckland, stopping at Singapore. She will schedule one tour a week for nine weeks, starting in January, which is summertime in New Zealand. Take-off and landing slots at Heathrow and Auckland mean that the plane will land in Auckland at 13:30 of day 1 and will take off from Auckland at 19:00 on day 13.

The possible attractions are described in the following table. Emma has inspected all the attractions and has made an estimate of how long the visits should last.

Name	Description	Location	Visit Time
Tiffany Dell	The preserved set for the Imp village, which was created for the start of the movie and also the home-coming.	Arthur's Pass South Island	5 hours
Mount Ted	One scene was filmed on location at one of the lesser known volcanoes in New Zealand. The ledge they used for filming is natural and about 100 feet down inside the crater of the volcano. The tourist board built a lift and visitors can actually walk along the ledge.	Mount Cook South Island	3 hours
Maze of Tunnels	Although not strictly a maze, this scene was filmed in a series of connected caves. Visitors are invited to visit the caves to try and solve the maze.	Waitomo North Island	4 hours
Flight of the Imps	This section of the film was filmed on a farm on the North Island. It involved the actors being attached to a zip wire. The zip wire has been replaced by a cable with carriages attached. Visitors can ride the cable and reconstruct the flight.	Taupo North Island	3 hours
Living Forest	A walk through the Living Forest where visitors can experience some of the frightening effects displayed in the film. The walk is two hours.	Blenheim South Island	2 hours
Indigo Rapids	Eight-seater rafts have been constructed that are steered by experienced staff. Visitors can shoot the rapids, just like the Imps in the film.	Westport South Island	4 hours
Salmon Run	The props for the film are exhibited at the Queen of the Rocks museum in Wellington. Visitors can be filmed riding the salmon, as the Imps did in the film.	Wellington North Island	5 hours

Sandstone Rock	The tourist board did not need to enhance this site at all as it is a natural beach. The visitors simply have a day on the beach.	Napier North Island	7 hours
Slowhand Falls	Slowhand Falls appears in the third film. Visitors can walk through the waterfall, swim in the lake or relax in the hot pools.	Rotorua North Island	5 hours
Imp Place	Imp Place did not appear in the film but is a specially built theme park based on the film. It has water rides, roller coasters, shops, cafes and a boating lake.	Hamilton North Island	7 hours

Kool Kiwi Tours has a contract with a New Zealand coach company to provide coaches with 49 seats for transport between the locations. It has also contacted local hotels to get prices for accommodation. The coach company has sent Emma data about journey times. This data is an average of the journey times between locations, using times recorded over the last five years.

Some of the attractions are on the North Island and some of them are on the South Island. To cross between the islands, a ferry is taken that travels between Picton and Wellington adding 4 hours and 50 minutes, which is included in the average journey time.

Figure 1 is a map of New Zealand. The possible locations of the tourist attractions are shown across the north and south of the island.

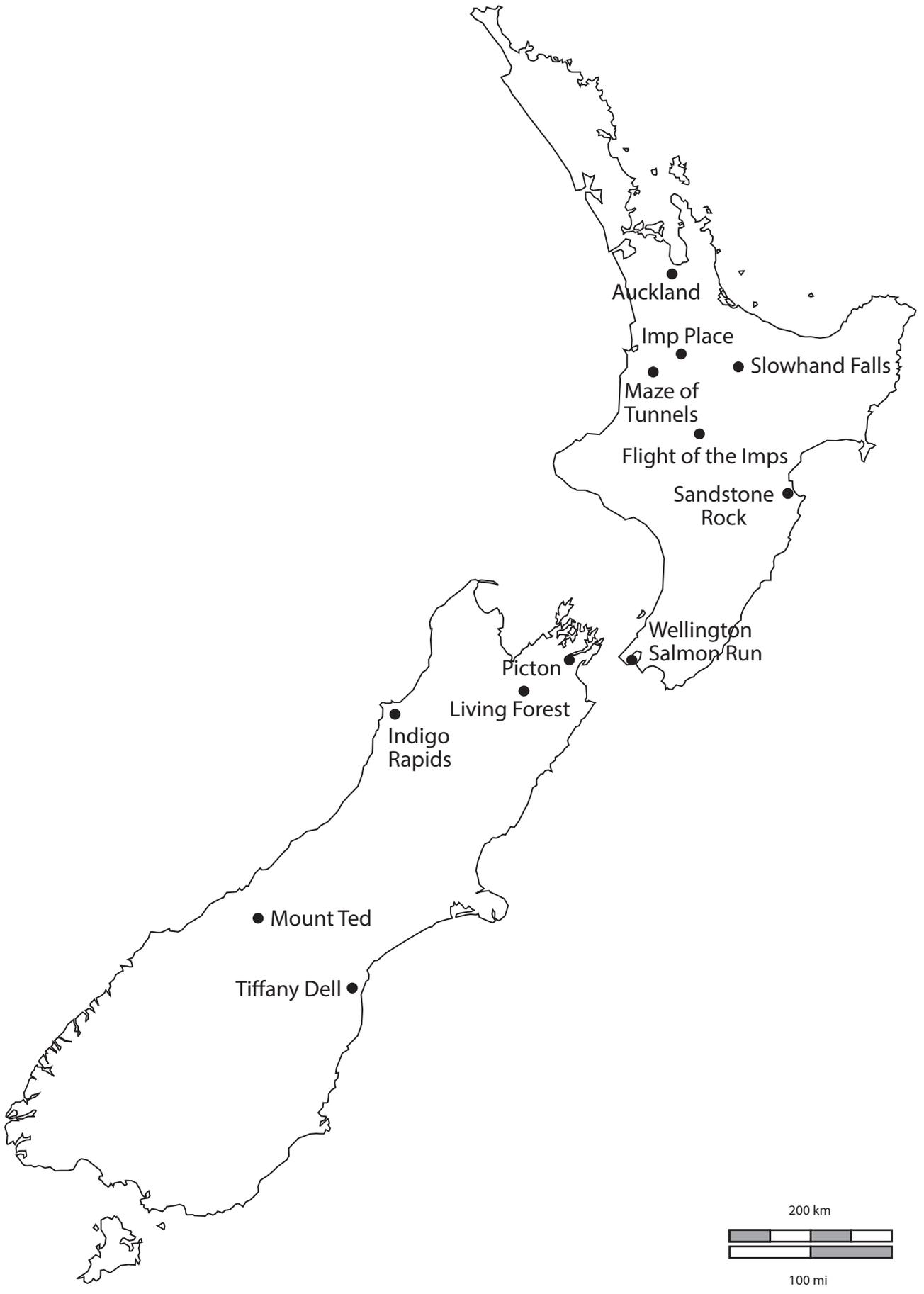


Figure1

Emma has started to create a model to help her decide which attractions to visit and the order in which they should be visited. However, she was called away to Los Angeles to rehouse a tour whose hotel had burnt down. She has asked you to complete the model and make recommendations to her when she returns.

The model contains the following worksheets.

Worksheet	Description
Home	The 'Home' worksheet is a summary page where the order of visits is set. It will also keep track of which attractions have been visited and how many times. Each attraction should only be visited once and the more attractions visited the better.
Timings	This will contain a timings matrix showing the average time taken to travel between the attractions.
Time Calculations	This worksheet will calculate the timings of the visits and the travel time between them.
Attractions	This worksheet contains information about the attractions.

Some cells in the model are password protected. Should you wish to experiment with the model, the password is *edexcel*. Be aware that if you change the contents of any protected cell the model may not work.