

# The Trip

Achievement	Achievement with Merit	Achievement with Excellence
<ul style="list-style-type: none"> <li>Apply numeric reasoning in solving problems.</li> </ul>	<ul style="list-style-type: none"> <li>Apply numeric reasoning, using relational thinking, in solving problems.</li> </ul>	<ul style="list-style-type: none"> <li>Apply numeric reasoning, using extended abstract thinking, in solving problems.</li> </ul>

## Introduction

This assessment activity requires you to recommend the “best option” for funding a tramping trip for a group of students travelling from your college.

Nine students have decided that they wish to go on a three day tramp to explore one of the “The great walks” in the Tongariro National Park. The tramp will begin and end at Whakapapa Village which is in Tongariro National Park. The transport costs, accommodation fees and the food requirements need to be calculated to estimate the cost of the trip. The one way distance from Our college to Whakapapa village is 345 kms.



The school minivan, which will carry the nine students and the two staff members, costs \$1.05 per kilometre. The DOC hut fees are \$21 per person per night and they estimate that the food cost per person will be \$19.50 per day. These three costs include GST of 15%.

The students wish to earn all of the money required to undertake this trip by fundraising. They have decided on two options, as shown in the table below:

**Note** GST of 15% is to be added to these items for the final cost total.

Sausage Sizzle			Carwash	
ITEM	UNIT	Cost ex GST	ITEM	UNIT
Sausages	kg, 12 sausages	\$4.30	Carwash liquid	5L Will wash about 50 cars
Bread	Loaf 30 slices per loaf	\$2.00	Brushes and clothes	Will wash about 1000 cars
Butter	500g Enough for 200 slices	\$2.82		
Paper towels	2 rolls 100 sheets per roll	\$2.60		
Tomato sauce	2 L Enough for 200 sausages	\$7.51		
BBQ hire	Per day	\$20.00		
<b>Sales</b>	The students believe that they can sell a wrapped sausage for \$2.00 and that they can sell about 300 in one day.		The students think they can charge \$5.00 for a carwash and that they can expect to wash about 50 cars in one day.	

## YOUR TASK

Make a recommendation for the “best option” for funding the tramping trip from our college.