



# Maths Week/ Wiki Pāngarau 2025



## Survivor Series/Kia Mōrehurehu

### Day 3 Set E

### For students

#### What to do for students

- 1 You can work with one or two others. Teams can be different each day.
- 2 Do the tasks and write any working you did, along with your answers, in your maths book.
- 3 Your teacher will tell you how you can get the answers to the questions and/or have your work checked.
- 4 When you have finished each day, your teacher will give you a word or words from a proverb. You could ask your teacher to explain what a proverb is.
- 5 At the end of the week, put the words together in the right order and you will be able to find the complete proverb! Your teacher may ask you to explain what the proverb means.
- 6 Good luck.



## DESTINATION DISCOVERY

Different countries use different currencies (money).

In New Zealand we use the New Zealand dollar (NZ\$), whilst in Australia they use the Australian dollar (AU\$). Both are divided into 100 cents.

Many countries in Europe use the Euro (€). There are a few European countries that do not use the Euro, these include the United Kingdom (Pounds Sterling £), Sweden (Swedish Krona Skr) and Denmark (Danish Krona Dkr).

Exchange rate conversions allow travellers and those purchasing items from overseas to compare costs.

Suppose the exchange rate between Australian dollars and New Zealand dollars was 1.10, that is 1 AU\$ = 1.10 NZ\$

### Task 1

Copy and complete the following table showing equivalent values in the other currency. Remember to check that your answer is reasonable, do you expect the number to be bigger/smaller. You will need to work out whether you need to multiply or divide.

NZ \$	AU \$
11	10
55	50
110	
440	
	20
	300
	700
	2000



## Task 2

Suppose the exchange rates are:

$\$NZ\ 1 = \text{€}0.60$  and  $1\ \text{AU}\$ = 1.2\ \text{NZ}\$$

- a) How much is 200 AU\$ worth in New Zealand dollars?
- b) How much is 50 NZ\$ worth in Euros?
- c) How much is 60 NZ\$ worth in Australian dollars?
- d) How much is 360 € worth in New Zealand dollars?
- e) How much is 500 AU\$ worth in New Zealand dollars?
- f) How much is 300 NZ\$ worth in Euros?
- g) How much is 720 NZ\$ worth in Australian dollars?
- h) How much is 840 € worth in New Zealand dollars?

## Task 3

Exchange rates are usually more detailed than those demonstrated in the previous tasks. There are times when an estimate might be adequate rather than working out the exact value down to the nearest cent (or equivalent), whilst there are times when the exact value might be required.

In addition to using the exchange rate to work out the cost in the local currency, when using a credit card for payment there are additional charges for using a foreign currency to make the payment.

Suppose the international transaction fee (the charge for paying in a different currency) was two percent. Use the exchange rates from task 2 to work out the following, assume that in each case an international transaction fee was paid on the NZ credit card.

- a) How much is 150 AU\$ in New Zealand dollars?
- b) How much would the international transaction fee be for this payment?
- c) How much in total would appear on the credit card statement in NZ\$ for the 150 AU \$ charge?
- d) How much is €1200 in New Zealand dollars?
- e) How much would the international transaction fee be for this payment?
- f) How much in total would appear on the credit card statement in NZ\$ for the €1200 charge?
- g) What is the single calculation to work out the total that would appear on the credit card statement without calculating the international transfer charge as a separate calculation?

#### Task 4

You and a friend are planning a 7 day overseas trip to the UK.



Assume a budget of \$2500 per person for flights, and combined daily costs of \$600 for accommodation and meals plus \$350 for incidentals such as entry to tourist attractions and travel within the UK.

- a) Calculate the total budget for the trip.
- b) Add a contingency of ten percent to work out an adjusted budget.
- c) Research the exchange rate between Pounds Sterling and New Zealand dollars. Work out what the Daily Allowance for accommodation and incidentals would be in pounds sterling.
- d) Research places in the UK and plan how you might spend a week there. Consider where you might stay, eat and visit and whether the budget would be adequate for you both to stay for seven days and nights.