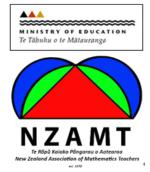
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Maths Week/Pāngarau Wiki 2025



Daily Dollar/Ko te Tāra o te Rā

Bill Ellwood Memorial Series

This series is a tribute to Bill Ellwood, who wrote much of the Maths Week material from 2006 to 2019. Bill passed away in June 2021.

Set B Day 3

For students



WHAT TO DO FOR STUDENTS

- 1 You may work on your own or with someone else, and your teacher or someone else can help you.
- 2 Answer the questions.
- 3 Each question has a dollar value. Each day's questions total \$100 in value.
- 4 When you have answered the questions, your teacher will give you the answers.
- If you are right, you will get the dollar value for each question. You then you can work out how many dollars you have earned for the day.
- Add the number of dollars you have earned each day in the Daily Dollar questions and get a total for the week. Then you can compare your total for the week with others in your class.
- 7 Perhaps your teacher may award a prize for the highest total for the week!
- 8 Good luck!

THE SECRET CODE

Write the answer to each question in the space provided.

Question 1 (\$20)



Secret agent, A, has found the location of the lair of the sinister Doctor Evilalot. She has hidden the location in the following messages using a secret code. Time is of the essence. Can you decipher the code and the messages? Agent A has created the code by translating the letters in the alphabet - moving each letter by the same number of places. Complete this coding table.

Answer

Α	В	C	٥	Ε	F	G	Н	Ι	J	K	L	M
8	9						15		17			20
Ν	0	Р	Q	R	S	Т	U	٧	W	X	У	Ζ
	22			25	26	1						

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Use the decoding table in Question 1 to decode the following messages.

Question 2 (\$20)



The location of the lair is in this city.

15 8 26 1 16 21 14 26

Answer			

Question 3 (\$20)



The lair is in this suburb of the city.

20 8 6 13 8 16 25

Answer

Question 4 (\$20)



Buried deep underneath this location, Dr Evilalot hides.

9 16 19 19 20 8 1 15 12 4 26 22 21 23

8 25 18

Answer

Question 5 (\$20)



(a) This last message was slightly scrambled in transmission. See if you can unscramble secret agent A's final message.

(b) Create your own message and translate it using the same key. Once you are finished, share your code with a partner and decode each other's message.

Answer		