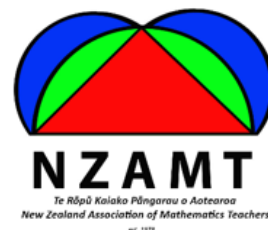
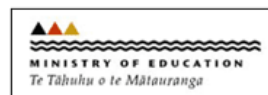




Maths Week/Pāngarau Wiki 2025



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 C Day 2

For students



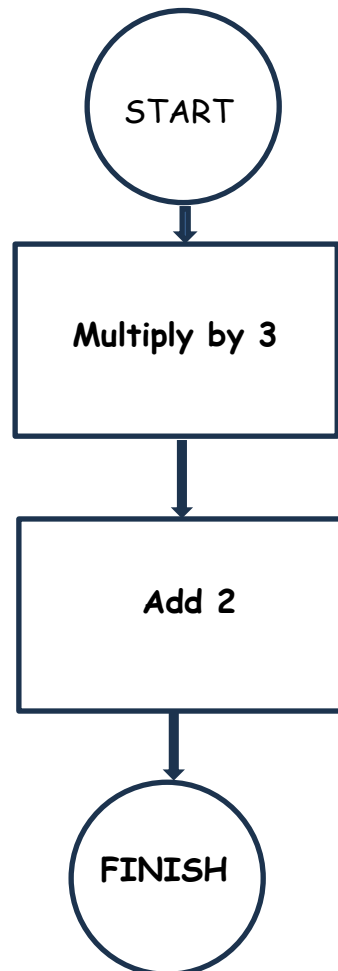
WHAT TO DO FOR STUDENTS

- 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.
- 5 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.
- 6 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!

FUNCTIONS

A function is like a machine that has an input and an output.

The output is found by applying a rule or following a set of instructions on the input.



The function above takes a number, multiplies it by 3 and then adds 2.

For example, if we input the number 5, it gets multiplied by 3 to give 15, then 2 is added to output the number 17.

Question 1 (\$20)

If the number 7 is put into the function, what number is output?

Question 2 (\$20)

If the number 12 is put into the function, what number is output?



Question 3 (\$20)

If the number 20 is output by the function, what number was input?



Question 4 (\$20)

Copy and complete the following table for this function.

Input	Multiply by 3		Add 2	Output
0	$\times 3$		$+ 2$	
1	$\times 3$		$+ 2$	
2	$\times 3$		$+ 2$	
3	$\times 3$		$+ 2$	
4	$\times 3$		$+ 2$	
5	$\times 3$	15	$+ 2$	17
6	$\times 3$	18	$+ 2$	20
7	$\times 3$	21	$+ 2$	23
8	$\times 3$		$+ 2$	
9	$\times 3$		$+ 2$	
10	$\times 3$		$+ 2$	
11	$\times 3$		$+ 2$	
12	$\times 3$	36	$+ 2$	38

Question 5 (\$20)

Complete the following sentences:

Each time the input number increases by 1, the output number increases by _____.

When the input number decreases by 1, the output number will _____ by _____.