7.1 Algebraic Expressions

The First Toki that Hewed the Largest Waka Hourua

Some accounts say that Te Arawa was the largest *waka*[1] to sail to Aotearoa from Hawaiki. It was a *waka hourua*[2] with a *whare*[3] built onto it. Te Arawa was built by a great master with a *toki*[4], a special tool used in *waka* building. A *toki* has an arched blade almost at a right angle to the handle. Two *toki* were made and, by tradition, each was named.
To find out the name of the first of the *toki*, read the sentences below and write their corresponding algebraic expressions. The letter beside each question and its answer will give the puzzle code.

A number (**n**) multiplied by seven. A

A number (**n**) divided by seven. C

Seven divided by a number (**n**). T

Seven more than a number (**n**). L

Seven less than a number (**n**). D

The number of cents in **n** dollars. S

The number of months in **n** years. I

The number of days in **n** hours. W

A school bus has 15 students and **n** more get on at the next stop. Write down the expression for the new number of students in the bus. E

In a class of 31 students, **n** students are absent. Write down the expression of the number of students present. R

A can of soft drink costs 60 cents. Write down the expression for the cost of **n** cans in dollars. U

A number (**n**) multiplied by four, and three subtracted from it. L

12n	$\frac{7}{n}$	24n	$\frac{n}{24}$	7n	100n	24n	$\frac{n}{7}$	7n	n+7	4n-3	n+15	n-7

$\frac{7}{n}$	0.6n	$\frac{7}{n}$	7n	0.6n	31-n	0.6n

[1]*Waka* (canoe); [2]*Waka hourua* (double-hulled canoe); [3]*Whare* (house); [4]*Toki* (an adze);