More Divisibility Rules

Purpose:
The purpose of this activity is to help your child extend the divisibility rules they know.

Link to the Number Framework:
Number Facts, Stage 8

What you need:
Pack of cards. Ace = 1, remove the 10 and the picture cards.
Divisibility Rules. You can print these or make your own.
Calculator

What to do:
Together make a 3 digit number using the cards.
Use the divisibility rules to work out what numbers the hundreds is divisible by. You can check your answers with the calculator.

What to expect your child to do:
Over time expect your child to become quicker at using the divisibility rules .

Variation:
Ask your child to make a 3 digit number that is divisible by a number, for example “make a number that can be divisible by 3”

Related Māori Vocab:

riwhiriwhi (~a)	shuffle
whakawehe (~a)	divide
mati	digit
tau mati-toru	3-digit number
taurua	even number
tapeke	total

More Divisibility Rules

A number is...

divisible by 2 if the last digit is an even number.

divisible by 3 if the sum of the digits is divisible by 3.

divisible by 5 if the last digit is either 0 or 5.

divisible by 9 if the sum of the digits is divisible by 9.

divisible by 10 if the last digit is 0.

divisible by 4 if the last 2 digits are divisible by 4.

divisible by 6 if it divisible by both 2 and 3.

divisible by 8 if the last 3 digits are divisible by 8. The last 3 digits of the number are divisible by 8 if it is divisible by 2, then 2, then 2.

Just for interest

A number is divisible by 7 if you can take the last digit double it, then subtract it from the rest of the digits. If this number is a multiple of 7 then the original number is divisible by 7. For example, 378, take 8, double it to get 16, 37 take away 16 is 21. 21 is multiple of 3 so 378 is divisible by 7.