

Divisibility Rules!

Purpose:

The purpose of this activity is to help your child learn divisibility rules for 2, 3, 4, 5, and 10.

Link to Number Framework:

Number Facts, Stage 7-8.

What you need:

- Vehicle license plates. Play this game while you are traveling in the car.

What to do:

- Each time you are out in the car look for car license plates that are divisible by 2.
- As players find numbers that can be divided by 2 with no remainder they call them out.
- If you like you can keep a track of the score, with players receiving one point for each correct answer.
- Once your child is confident finding numbers divisible by 2, move on to look for numbers divisible by 3, 4, 5, or 10.

Extension:

- Look for numbers divisible by both 2 and 3.
- Look for numbers divisible by both 3 and 5.
- Look for numbers divisible by both 3 and 4.

Rules for Divisibility:

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

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

A number is divisible by 4 if the number formed by the last two digits is divisible by 4.

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

A number is divisible by 10 if the last digit is 0.

He Kupu Māori

car number plate	tau tohu motukā
divide	whakawehe (-a)
last digit	mati whakamutunga

He Whakawhitinga Kōrero:

- Mēnā ka kite koe i tētahi tau tohu motukā e taea ana te [rua] te whakawehe pū ki roto, me whakamōhio mai. Kotahi piro te whiwhinga. *(If you see a number plate which [2] can be divided exactly in to, then tell us. You'll get one point)*
- He aha koe i mōhio ai ka whakawehe pū te [rua/toru/whā ...] ki roto i tērā tau tohu motukā? *(How do you know that [2/3/4...] divides exactly in to that number plate?)*
- Ka whakawehe pū te rua ki roto, nā te mea he taurua te mati whakamutunga *(2 divides in exactly because the last digit is an even number.)*
- Ka whakawehe pū te toru ki roto, nā te mea ka whakawehe pū te toru ki roto i te tapeke o ngā mati. *(3 divides in exactly because the sum of the digits can be divided exactly by 3.)*
- Ka whakawehe pū te whā ki roto, nā te mea ka whakawehe pū te 4 ki roto i te tau e hāngai ana ki ngā mati whakamutunga e rua. *(4 divides in exactly because 4 can be divided exactly in to the number formed by the last two digits.)*

- Ka whakawehe pū te rima ki roto, nā te mea ko te kore, ko te rima rānei te mati whakamutunga. (*5 divides in exactly because the last digit is a 0 or a 5.*)
- Ka whakawehe pū te tekau ki roto, nā te mea he kore te mati whakamutunga (*10 divides in exactly because the last digit is a 0.*)