

## Divisibility Rules!

### Purpose:

You can help your child learn divisibility rules for 2, 3, 4, 5, and 10.

### 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.)*