Calculator Factors

Purpose:
The purpose of this activity is to help your child learn factors of numbers 100. Factors are numbers that divide evenly into a number with no remainder, for example, the factors of 6 are 1, 2, 3, and 6.

Link to Number Framework:
Number Facts, Stage 7-8.

What you need:
- A calculator

What to do:
- Enter a 2 digit number into the calculator.
- Ask your child to name as many factors of this number as they can. Factors come in pairs that multiply together to give the number. Every number has at least 1 and itself as factors.
- If your child is unsure whether a number is a factor, use the calculator to check. For example, if they are unsure whether 6 is a factor of 48, calculate 48 divided by 6. This will tell you the number that multiplies with 6 to give 48. In this example 48 ÷ 6 = 8 so both 6 and 8 are factors of 48. If the answer to the division is not a whole number, ie, it has a decimal point, then the number is not a factor. For example 48 ÷ 5 = 9.6 so 5 is not a factor of 48.
- Take turns with your child to name factors for numbers and use the calculator.

What to expect your child to do:
- Use the basic multiplication facts they know to help them identify factors. For example, if you know 4 x 8 is 32, you can use this to identify that 4 and 8 are factors of 32.

He Kupu Māori

two digit number	tau mati-rua
calculator	tātaitai
factor	tauwehe
divide	whakawehe (-a)

He Whakawhitinga Kōrero:
- Anei tētahi tau mati-rua, nāku i whakauru ki te tātaitai. *(Here's a two-digit number which I've entered in to the calculator.)*
- He aha ngā tauwehe katoa o tēnei tau? He aha ngā tau ka whakawehe pū ki roto i tēnei tau? *(What are all the factors of this munber? What numbers divide exactly in to this number?)*
- Whakamahia te tātaitai hei whakamātau mēnā he tauwehe te [8] o te [72]. Whakawehea te 72 ki te 8. He tauoti te otinga? He tau ā-ira rānei? *(Use the calculator to test whether [8] is a factor of [72]. Divide 72 by 8. Is the result a whole number, or a decimal number?)*
- Mēnā he tau ā-ira te otinga o te whakawehenga, e tohu ana tērā, ehara i te tauwehe. *(If the result of the division is a decimal, that shows that it is not a factor.)*