



Calculator Factors

Purpose:

You can 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.

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 $48 \div 6 = 8$ 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 $48 \div 5 = 9.6$ 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 4×8 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 number? 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.)*