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Multiplying by 10, 100 and 1000
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## Purpose:

You can help your child practice multiplying numbers by 10, 100 and 1000.

## What you need:

- Game board. You can print these or make your own.
- Cardboard.
- Dice.
- Piece of paper for each player.


## What to do:

Glue the cards on to cardboard. Give a game board to each player. Players take turns to roll the dice.
The number on the dice is the number of zeros in the number. For example, 4 means 10000.
The player then writes on their piece of paper how they will use the dice roll to cross a number off their game board.

- Example 1: If a player rolls a 4 they can cross off the number 20000 by writing any of the following: $2 \times 10000,20 \times 1000,200 \times 100,2000 \times 10$ or $20000 \times 1$.
- Example 2: If a player rolls a 3 they can cross off the number 3000 by writing any of the following: $1 \times 3000,10 \times 300,300 \times 10$, or $1000 \times 3$

Game board A

| 600 | 40 | 3000 | 500 | 10000 | 200000 |
| :--- | :--- | :--- | :--- | :--- | :--- |

Other players check the answer, if it is correct the player crosses off the answer.
Encourage your child to use a variety of equations, for example $\times 10, \mathrm{x} 100$ and x 100 during the game.
The winner is the first player to cross off all the numbers on the game board.

## What to expect your child to do:

To correctly multiply by $10,100,1000$.

## Variation:

- A player can have another turn if the number on the dice is the same as the number on the board. For example, using Game Board A: If a player rolls a 3 on the dice and has the number 3000.
- Make more game boards.
- Use your home language to play this game.


## He Kupu Māori:

| mataono tau | dice |
| :--- | :--- |
| pīrori (~hia) | roll (e.g. a dice) |
| papa tākaro | game board |
| whakarea (~tia) | multiply |
| whakareatanga | multiplication |
| porotiti | counter |

## He Whakawhitinga Kōrero:

- Kei a koe i te tuatahi. Pīrorihia te mataono tau. (You go first. Roll the dice.)
- Kua pīrorihia te whā. Koirā te maha o ngā kore i tētahi o ngā tau i tō papa tākaro. Tohua tēnā tau. (A 4 has been rolled. Thats the number of zeros in a number on your game board. Point to that number.)
- He aha tētahi whakareatanga e hua mai ai tēnā tau? (What is a multiplication that will produce that number?)
- Tuhia te whakareatanga ki te pepa. (Write the multiplication on paper.)
- Whakareatia te tekau mano ki te rua, ka rua tekau mano. (Multiply 10000 by 2 and you get 20 000.)
- Uhia tēnā tau ki te porotiti. (Cover that number with a counter.)
- Kua uhia katoatia ngā tau i tō papa tākaro, ko koe te toa. (You've covered all the numbers on your game board, you're the winner.)

Multiplying by 10, 100 and 1000 Game Boards

| 600 | 40 | 3000 | 500 | 10000 | 200000 |
| :--- | :--- | :--- | :--- | :--- | :--- |


| 400 | 6000 | 20000 | 5000 | 10 | 100000 |
| :--- | :--- | :--- | :--- | :--- | :--- |


| 40000 | 50 | 10000 | 2000 | 600 | 300000 |
| :--- | :--- | :--- | :--- | :--- | :--- |


| 500000 | 200000 | 60 | 400 | 30000 | 1000 |
| :--- | :--- | :--- | :--- | :--- | :--- |


| 30000 | 400 | 5000 | 2000 | 10000 | 20 |
| :--- | :--- | :--- | :--- | :--- | :--- |


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