**Multiplying by 10, 100 and 1000**

**Purpose:**

The purpose of this activity is to help your child practice multiplying numbers by 10, 100 and 1000.

**Link to the Number Framework:**

Number Facts, Stage 6

**What you need:**

Game board. You can print these or make your own.

Cardboard. (Old cereal boxes are good).

A die.

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 10 000.

The player then writes on their piece of paper how they will use the dice roll to cross a number off their game board. For example, if a player rolls a 4 they can cross 20 000 (or any number in the 10 000s) by writing any of the following: 2 x 10000, 20 x 1000, 200 x 100, 2000 x 10, 20 000 x 1. 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 x10, x100 and x100 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:**

Players get another turn if the number on the dice is both the number of zeros in the number and the non-zero digit in the number. For example, if a dice roll of 1 is used to make 10, or a 2 is used to make 200, etc, then the player gets extra turn.

**Related Māori Vocab:**

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

**Multiplying by 10, 100 and 1000**

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| --- | --- | --- | --- | --- | --- |
| 600 | 40 | 3 000 | 5 000 000 | 10 000 | 200 000 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 400 | 6 000 000 | 20 000 | 5 000 | 10 | 100 000 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 40 000 | 50 | 1 000 000 | 2 000 | 600 | 300 000 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 500 000 | 2 000 000 | 60 | 400 | 30 000 | 1 000 |