

Square Roots

Purpose:

The purpose of this activity is to help your child to learn the square numbers to 100 and their square roots.

Link to the Number Framework:

Basic facts, Stage 7

What you need:

Game cards. You can print these or make your own.
Cardboard. (Old cereal boxes are good)

What to do:

Print the number cards and glue them on to cardboard or write the numbers on cardboard cards.

Mix the cards and spread them out place them face down between the players.

This game is played like Memory. The first person turns over two cards. If they are a match of square and square root numbers the player takes the pair and has another turn. If the cards do not match they replace them to the same place face down. The next player has a turn. The winner is the player with the most pairs.

What to expect your child to do:

- To quickly recognize a matching pair.

Variation:

The same cards can be used to play Snap.

The cards can be used as flash cards. As the cards are turned over the child names the matching square or square root for the card.

He Kupu Māori:

| | |
|----------------------|----------------|
| turn over | huripoki (-na) |
| square (of a number) | pūrua |
| square root | pūtakerua |
| pair | takirua |

He Whakawhitinga Kōrero:

- Riwhiriwhia ngā kāri. (*Shuffle the cards.*)
- Horahia ngā kāri, ko ngā mata ki raro. (*Spread the cards out, face down.*)
- Huripokina ētahi kāri e rua. (*Turn over two cards.*)
- He takirua tēnā. Ko te [iwa] te pūrua o te [toru]. Ko te [toru] te pūtakerua o te [iwa]. (*That's a pair. [9] is the square of [3]. [3] is the square root of [9].*)
- Ehara tēnā i te takirua. Kei a koe ināianei. (*That's not a pair. Your turn now.*)

Template for squares and square roots

| | | | | |
|-------------|-------------|-------------|-------------|--------------|
| 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 |
| $\sqrt{1}$ | $\sqrt{4}$ | $\sqrt{9}$ | $\sqrt{16}$ | $\sqrt{25}$ |
| $\sqrt{36}$ | $\sqrt{49}$ | $\sqrt{64}$ | $\sqrt{81}$ | $\sqrt{100}$ |