

Factors Cover Up

Purpose:

The purpose of this activity is to help your child to identify factors of numbers.

Link to the Number Framework:

Number Facts, Stage 7

What you need:

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

Pack of playing cards - remove the aces and picture cards.

8 buttons/counters/little squares of paper for each player.

What to do:

Shuffle the playing cards and place in a pile face down. Give a game board to each player.

Players take turns to turn over a playing card. If the number is a factor of a number on their card they can cover that number. They may be able to cover more than one number in a turn. Return the playing card to the bottom of the pile.

The next player then has a turn.

The winner is the first person to cover all the numbers on their game board.

What to expect your child to do:

To identify factors of numbers using strategies such as multiplication and division facts, and divisibility rules. For example; 5 can be a factor of numbers ending in 0 or 5, 2 can be a factor of even numbers, 3 is a factor of numbers whose digits add to be a multiple of 3 (e.g. 42: $4 + 2 = 6$, 6 is a multiple of 3, therefore so is 42)

Variation:

There are four game boards so players can play again with a different board.

He Kupu Māori:

papa tau	number board
tauwehe	factor
porotiti	counter

He Whakawhitinga Kōrero:

- Riwhiriwhia ngā kāri, ka whakaputu ai ko ngā mata ki raro. (*Shuffle the cards and place them in a pile face down.*)
- Tangohia tētahi kāri. Āta tirohia tō papa tau. Mēnā he tauwehe tō kāri o tētahi o ngā tau i tō papa, uhia taua tau ki te porotiti. (*Look carefully at your number board. If your card is a factor of a number on your board, cover that number with a counter.*)
- Whakahokia tō kāri ki raro o te putunga kāri. (*Return your card to the bottom of the pile.*)
- Kei ahau ināianei. (*Its my turn now.*)
- Māu e tīmata. (*You can start.*)
- He tauwehe te whā nō te tekau mā rua. (*4 is a factor of 12.*)
- Ko te tangata tuatahi ki te uhi i ngā tau katoa i tōna papa, ko ia te toa. (*The first person to cover all of the numbers on their board is the winner.*)

Factors Gameboard

14	24	20	32
45	35	16	28

15	48	32	30
45	21	18	27

21	24	16	28
12	25	18	27

12	40	35	18
15	28	16	49

