

## 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

