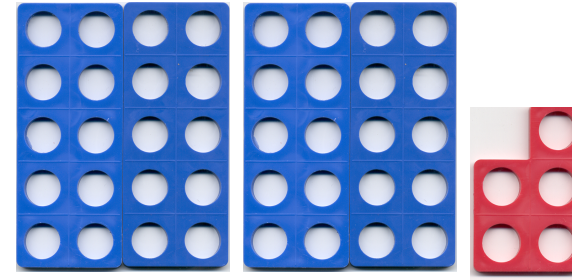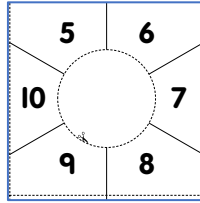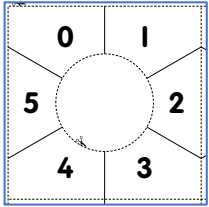# Activity cards for
NPC 2
CAL 12

'Bus' Maths

You will need: shapes, or rods, and a number line

Your school has hired a bus to take children to a concert in Christchurch.
There are 45 children on the bus and 9 adults get on. How many people are now on the bus?

Show this problem with shapes or rods, then a number line.

A

Spinner: 0, 1, 2, 3, 4, 5
Spinner: 5, 6, 7, 8, 9, 10

0 – 0 =	4 – 2 =	6 – 3 =
1 – 0 =	4 – 3 =	6 – 4 =
1 – 1 =	4 – 4 =	6 – 5 =
2 – 0 =	5 – 0 =	6 – 6 =
2 – 1 =	5	
2 – 2 =	5	
3 – 0 =	5	
3 – 1 =	5	
3 – 2 =	5	
3 – 3 =	6	
4 – 0 =	6	
4 – 1 =	6	

8 – 0 =	9 – 3 =	10 – 5 =
8 – 1 =	9 – 4 =	10 – 6 =
8 – 2 =	9 – 5 =	10 – 7 =
8 – 3 =	9 – 6 =	10 – 8 =
8 – 4 =	9 – 7 =	10 – 9 =
8 – 5 =	9 – 8 =	10 – 10 =
8 – 6 =	9 – 9 =	□ – □ = □
8 – 7 =	10 – 0 =	□ – □ = □
8 – 8 =	10 – 1 =	□ – □ = □
9 – 0 =	10 – 2 =	□ – □ = □
9 – 1 =	10 – 3 =	□ – □ = □
9 – 2 =	10 – 4 =	□ – □ = □

1. Spin both spinners. Write the numbers down.

2. Spin the 0 – 5 again! Write this number down.

3. Now choose the Numicon shapes or rods to show the three numbers

4. Add the three numbers together without counting on.

5. Write down the number sentence in your books

Do this five times.
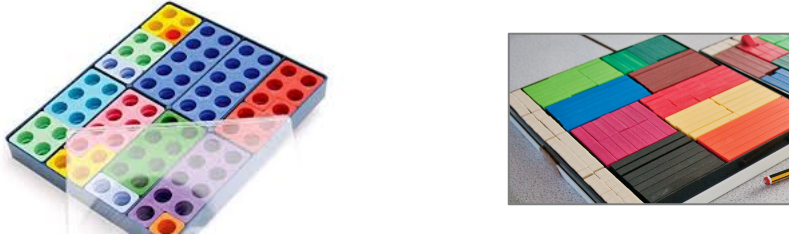
B

1. Roll both dice. Write the numbers down.

2. Roll the 0 – 5 again! Write this number down.

3. Now choose the Numicon shapes or rods to show the three numbers

4. Add the three numbers together without counting on.

5. Write down the number sentence in your books
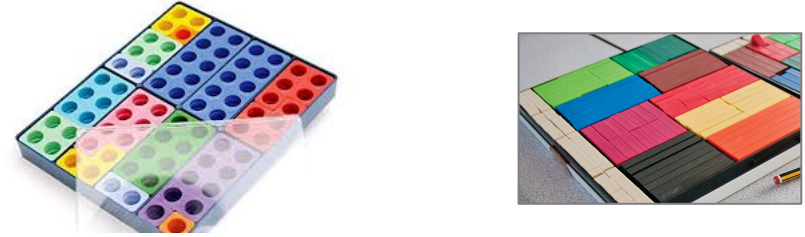
Do this five times.

C

1. Give each other 3 odd shapes or rods

2. Join them together to find the total in a long line. You might need a 10's number line.

3. Write the number sentence down

4. Do this 10 times and look for any patterns that you can see. Write down those patterns.

D

Take turns with this game

1. Give each other 3 even shapes or rods

2. Join them together to find the total in a long line. You might need a 10's number line.

3. Write the number sentence down

4. Do this 10 times and look for any patterns that you can see. Write down those patterns.
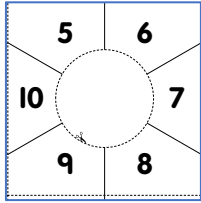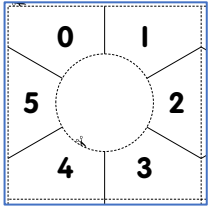
E 1

0	1
5	2
4	3

5	6
10	7
9	8

1.   Spin both spinners. Write the numbers down.

2.   Spin the 0 – 5 again! Write this number down.

3.   Now choose the Numicon shapes or rods to show the three numbers

4.   Add the three numbers together in a vertical column.

5.   Write down the number sentence in your books

Do this five times.

E2

1.   Roll both dice. Write the numbers down.

2.   Roll the 0 – 5 again! Write this number down.

3.   Now choose the Numicon shapes or rods to show the three numbers

4.   Add the three numbers together in a vertical column.

5.   Write down the number sentence in your books

Do this five times.

F1

	3
4	5	6	7
8	9	10	11
12	13	14	15

1. Turn all the cards over so you can't see them.

2. Take turns to turn over one card.

3. Grab three shapes to make that number when you add them.

4. Write the number sentence in your books.

5. Play this five times

F 2

	3
4	5	6	7
8	9	10	11
12	13	14	15

1. Turn all the cards over so you can't see them.

2. Take turns to turn over one card.

3. Write the number sentence in your books.

4. Check with the shapes or rods.

G

	3
4	5	6	7
8	9	10	11
12	13	14	15

1. Turn all the cards over so you can't see them.

2. Take turns to turn over one card.

3. Write the number sentence in your books.

4. How many ways could you find how to make this same total using the same numbers
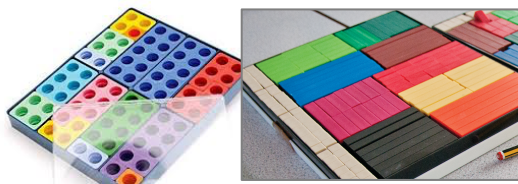
H

1. Choose 5 shapes or rods.

2. Find the total without counting.

3. Write the number sentence in the order you made the total.
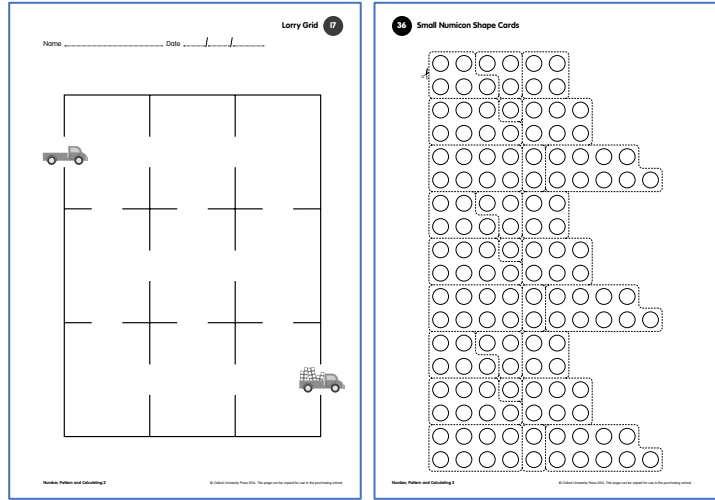
I

$1 $2 $3 $4

$5 $6 $7 $8 $9

1. See the shop set up with nine things all labelled with prices.

2. Buy three items. They must total more than $15.

3. Write the number sentence in your books.
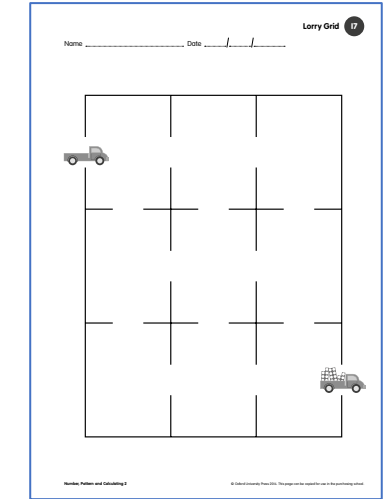
4. Go shopping 5 times each.

J

1. Put three different coins in the purse.

2. Give the purse to your partner to look inside and total the coins and notes inside.

3. Write the number sentence in your books.

4. Take turns and play this game 5 times each.

K 1

1. Place the small Numicon shape pictures onto the grid.

2. Drive the car through the grid passing through a square one time. Pick up the shapes as you go.

3. Write the number sentence in your book to show what you have picked up.

4. Go driving 5 times each.

K 2

1. Place the small Cuisenaire rods onto the grid.

2. Drive the truck through the grid passing through a square one time. Pick up the rods as you go.

3. Write the number sentence in your book to show what you have picked up.

4. Go driving 5 times each.