







A NUMBER ALWAYS REPRESENTS THE SAME AMOUNT.

INVESTIGATIONS OVERVIEW PAGE

THIS PAGE IS A SUMMARY OF THE INVESTIGATIONS THAT STUDENTS MAY ENGAGE IN TO DEEPEN THEIR RELATIONAL UNDERSTANDING. INVESTIGATIONS WITH INSTRUCTIONS TO STUDENTS FOLLOW ON SUBSEQUENT PAGES.

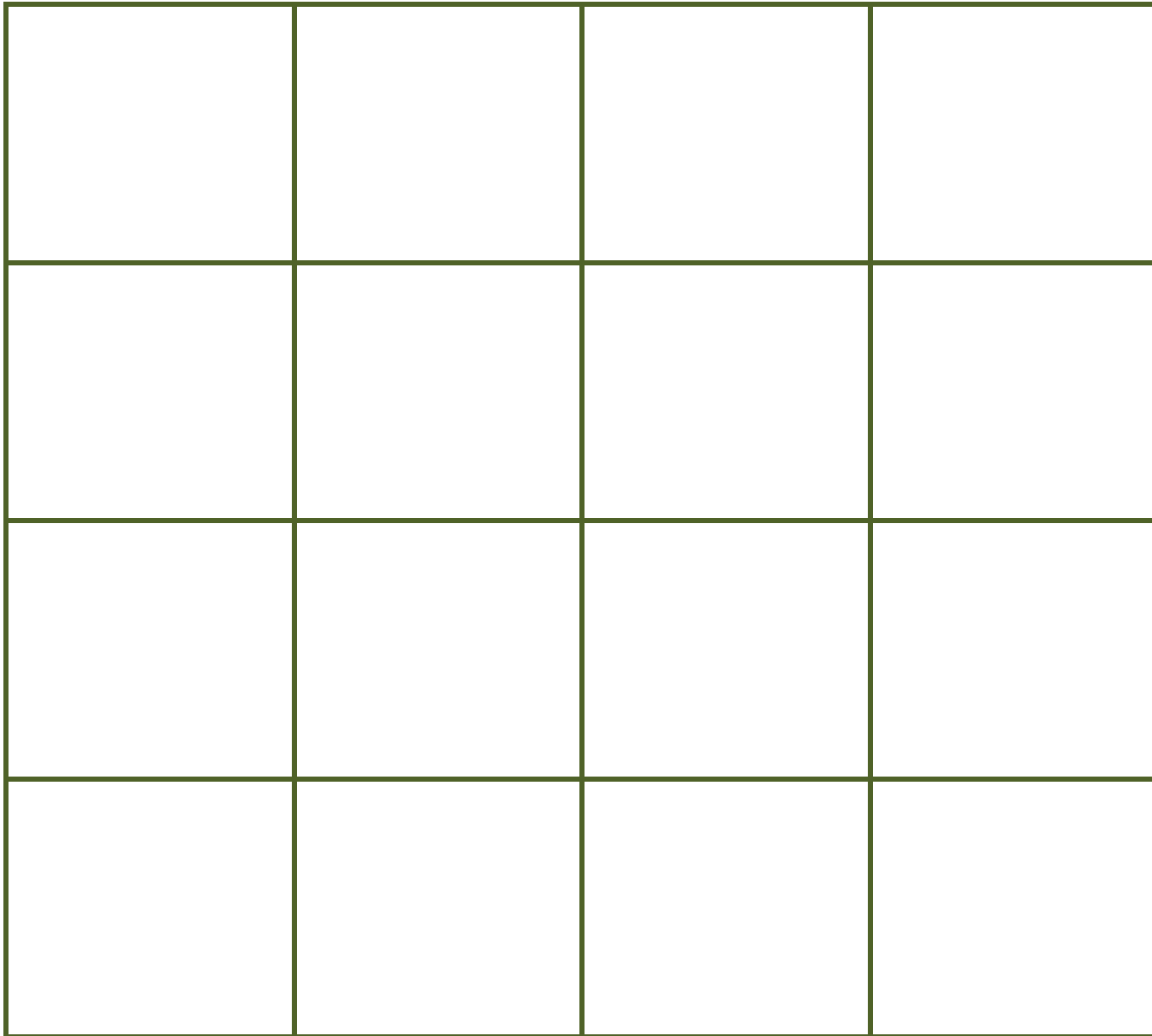
- In pairs, each child selects a numeral card according to their current level of understanding. They collect the corresponding number of a variety of items. They record the items, count the total number of each item. They explain that the number always represents the same amount. [Reflection: How does a number always mean the same amount?](#)
- In pairs, children drop the same number of a variety of items into 3 cans, counting as they do so. For example, they may drop in 3 marbles into one can, 3 dominoes into a second can and 3 erasers into a third can. They look into the cans and identify and explain that there are the same number of items in each can, and that each can holds 3 items. [Reflection: How does a number always mean the same amount?](#)
- In pairs, children are given a 4 by 4 grid. Along the top row children place or record 4 numbers within the range of their current level of understanding. Down the columns, children record the corresponding number of different shapes (square, circle, triangle, rectangle, etc). Children explain that there are the same number of each shape in each column. [Reflection: How does a number always mean the same amount?](#)
- In pairs, children play concentration, matching cards with dots, with cards with numbers, with cards with pictures. (freely available in the Internet, including Enchanted Learning, Pinterest) [Reflection: How does a number always mean the same amount?](#)

1	4	7	3
			
			
			

Numerals 0 – 10 (print, cut out and distribute to each child) ([back](#))

0	1	2	3
4	5	6	7
8	9	10	

4 x 4 Grid ([back](#))



A Number Always Represents the Same Amount

Select a number that is neither too easy nor too challenging, that you are ready to count.

Collect the number of items.

Draw the items.

Record the number of items.

Explain the last number said is the total.

Collect the number of different items.

Draw the items.

Record the number of items.

Explain the last number said is the total.

Compare the number of each item, identifying that the number always represents the same amount.

Reflection: How does a number always mean the same amount?

A Number Always Represents the Same Amount

Sit with a friend.

Drop the same number of a variety of items into 3 cans.

For example, they may drop in 3 marbles into one can, 3 dominoes into a second can and 3 erasers into a third can.

Count each object as it drops into the can.

Look into the cans and count how many objects are in the can.

Are there the same number of items in each can?

Reflection: How does a number always mean the same amount?







A Number Always Represents the Same Amount

Have a 4 by 4 grid.

Along the top row place or record 4 numbers.

Down the columns, record the number of shapes (square, circle, triangle, rectangle, etc), for example,

Are there the same number of each shape in each column?

1	4	7	3
			
			
			

Reflection: How does a number always mean the same amount?
