## To make arrays

I I can create arrays by making equal groups using columns and rows
I can change any arrays that have not been built correctly
$\square$ I can solve problems using arrays with real objects and pictures

## Starter:

Can you explain what is missing from the picture and the number sentences below?
Can you fill in the gaps?

$\underline{5}+\ldots+\ldots+\underline{5}=\underline{20}$
There are $\qquad$ fish.

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## Starter:

Can you explain what is missing from the picture and the number sentences below?
Can you fill in the gaps?


$$
\underline{5}+\underline{5}+5+5=20
$$

There are $\underline{20}$ fish.

## To make arrays

## Talking Time:

What are arrays?
Arrays are pictures that help us to see numbers in rows and columns.
Columns go down

Rows go across


## To make arrays

## Talking Time:

Can you move the oranges so that you make an array with $\mathbf{6}$ rows of $\mathbf{2}$ oranges in each row?


## To make arrays

## Talking Time:

Can you complete the sentences about the array?


There are 2 oranges in each row.
There are 6 rows.
$\underline{2}+\underline{2}+\underline{2}+\underline{2}+\underline{2}+\underline{2}=\underline{12}$
There are 12 oranges altogether.

## To make arrays

## Talking Time:

Can you move the beach balls so that you make an array with $\mathbf{3}$ rows of 10 beach balls in each row? Can you complete the sentences about the array?

## 

## 180101010781

There are $\qquad$ beach balls in each row.

There are $\qquad$ rows.
$\qquad$
$\qquad$ $+$ $\qquad$ = $\qquad$
There are $\qquad$ beach balls altogether.

## To make arrays

## Talking Time:

Can you move the beach balls so that you make an array with $\mathbf{3}$ rows of 10 beach balls in each row? Can you complete the sentences about the array?

## 0900909090

## 0000900090

> We could also say $\begin{aligned} & 3+3+3+3+3+3+3+3 \\ & +3+3=30\end{aligned}$

## 0000909090

There are 10 beach balls in each row.
There are 3 rows.

$$
\underline{10}+\underline{10}+\underline{10}=\underline{30}
$$

There are 30 beach balls altogether.

## To make arrays

## Talking Time:

Can you build an array with counters to match the beach balls? How many rows have you made? How many columns have you made?

## 0000000000

## -9000000000

## 0000900090

## To make arrays

## Talking Time:

Can you build an array with counters to represent the beach balls? How many rows have you made? How many columns have you made?

## 08080808080

## 8080808080

## 



## To make arrays

## Talking Time:

Can you use the picture of the array to fill in the gaps in the table?

| array | columns | rows | number sentences |
| :---: | :---: | :---: | :---: |
|  | There are $\qquad$ columns. <br> There are $\qquad$ zebras in each column. | There are $\qquad$ rows. <br> There are $\qquad$ zebras in each row. | $5+5+5=$ $\qquad$ <br> or $\begin{aligned} & \underline{3}+\underline{3}+\underline{3}+\underline{3}+\underline{3} \\ & =\underline{15} \end{aligned}$ |

## To make arrays

## Talking Time:

Can you use the picture of the array to complete the table?

| array | columns | rows | number sentences |
| :---: | :---: | :---: | :---: |
|  | There are $\qquad$ columns. <br> There are $\qquad$ shells in each column. | There are $\qquad$ rows. <br> There are $\qquad$ shells in each row. | $\underline{8}+\underline{8}=\underline{16}$ <br> or $\begin{aligned} & 2+2+2+2+2 \\ & +2+2+2=16 \end{aligned}$ |

## To make arrays

## Activity $\mathbf{3}$ ：

Ollie and Jenson are making the same array for $5+5+5+5+5=25$ ．
Do the arrays match？ How do you know？


Ollie
为为家
红会会会







## To make arrays

## Activity 3 :

Ollie and Jenson are making the same array for $5+5+5+5+5=25$.
Do the arrays match? How do you know?


Ollie's array is not $5+5+5+5+5$. He has a row with
The arrays do not match.
Jenson

## Ollie

 an extra star! $5+5+5+5+5$.







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## Evaluation:

Aisha and Evie are talking about the same array. Who is right?
Can you explain why?


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## Evaluation:

Aisha and Evie are talking about the same array. Who is right?
Can you explain why?

They are both right.


> This shows $2+2+2+2+2+2+2+2+2$ $=18$

Aisha
Aisha has counted the columns.
This shows $9+9$ $=18$ Evie
Evie has counted the rows.

