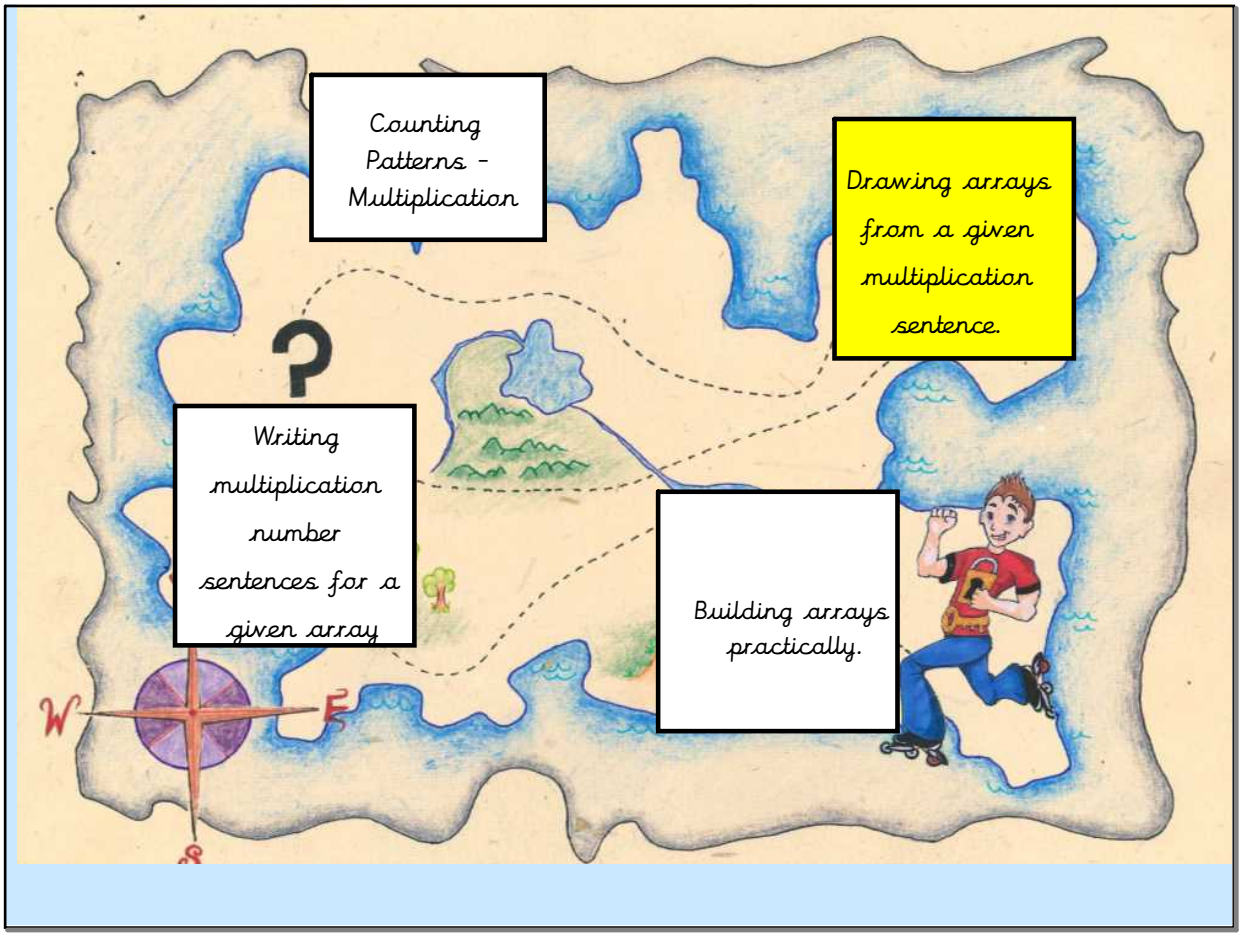
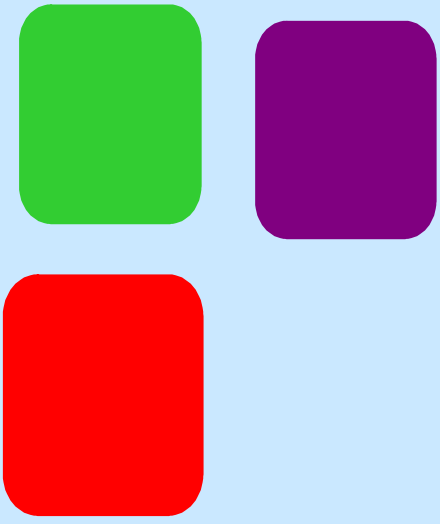



Let's remind ourselves of the counting patterns!

2's, 5's and 10's

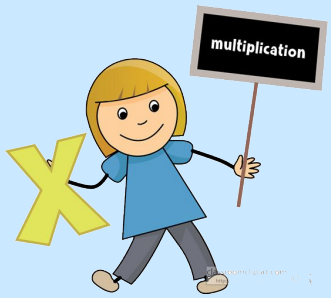


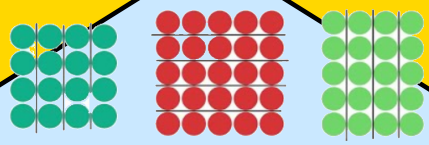
Menu
Select mode
Pick a color
Pick a puzzle
Missing number
1 more & 1 less
Lines
Cross
Patterns
New
Flip
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All
Reset

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
| 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 |
| 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |
| 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |

https://www.topmarks.co.uk/learning-to-count/paint-the-squares

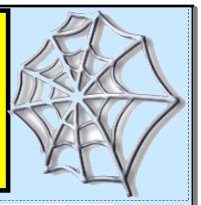


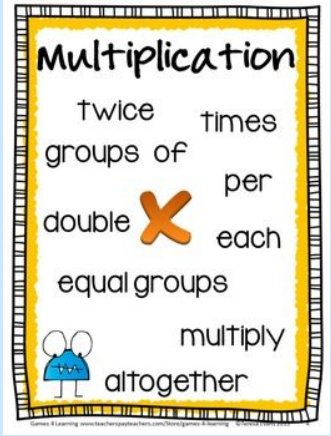

Today we are drawing arrays to solve a given multiplication sentence





## What do we already know about multiplication?






That multiplication can be done in any order. It is commutative.

e.g. $3 \times 5 = 15$

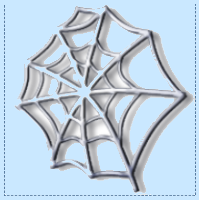
$5 \times 3 = 15$

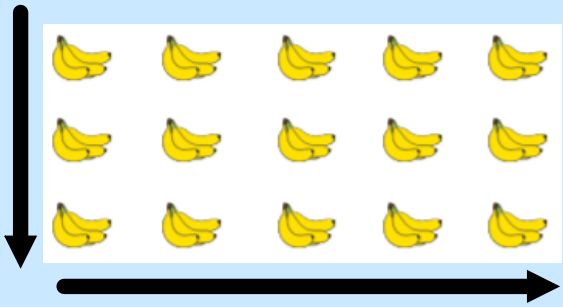
That we are putting amounts into groups or sets.

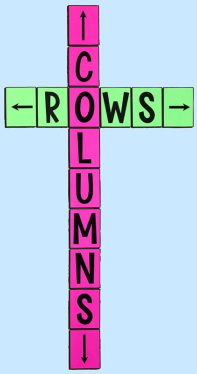
That counting patterns can help us work put answers eg. 5,10,15,20,25,30 etc...

We are going to weave our webs today!

Can you remind me how to work out the multiplication sentence?








_____ x _____ = _____

How can we solve this multiplication sentence?



Pink group to tables after this question

7 x 2 =

What is the commutative sentence?

2 x 7 =

to go

Jan 20-20:04

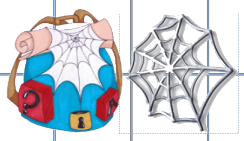
How many wheels are there on 3 bikes?



How can I solve this problem?
What maths picture can we draw?

Jan 20-20:04

What's the array for this multiplication sentence?

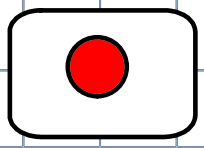


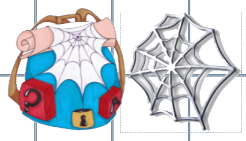
2 x 10 =

What is the commutative?

Jan 20-20:04

What's the array for this multiplication sentence?





6 x 5 =

What is the commutative?

Jan 20-20:04



What can you use to help you today?









| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
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| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
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| 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |
| 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |



## Now it's your turn.



- Choose a multiplication sentence
- Write it into your book
- Solve the problem using arrays.

Pink - use practical equipment to make the arrays and find the answers.

Green - draw the arrays to solve the multiplication problem. 2 and 10

Blue - Draw the array to solve the multiplication problem. 2, 5 and 10

Challenge: Write the commutative array.

Red Draw the array and the commutative array. 2, 5 and 10

Challenge: Word problems

## Plenary - How can we solve this problem



On their 9th birthday, Poppy and her twin sister Chloe each had a cake with nine candles.

How many candles were needed altogether?

Show your answer with an array and write the correct multiplication sentence.

