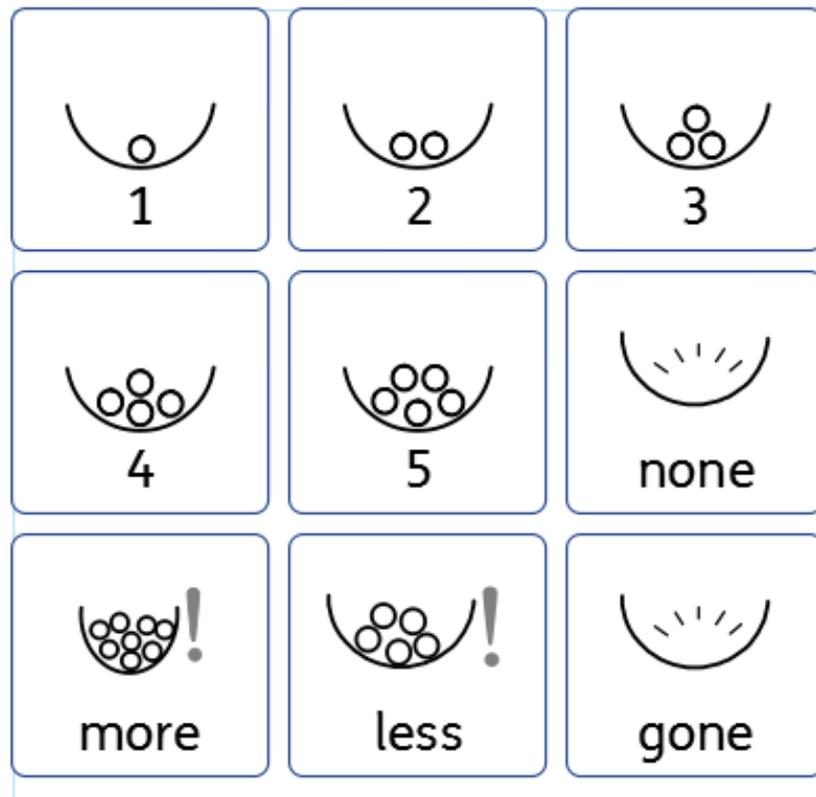


## Ideas for Exploring Number and Quantity in Maths.

Students can learn by exploring and observing in a range of maths play activities with a focus on numbers, amounts, more and less.

The idea is to create opportunities to explore different amounts of items. Where appropriate support this exploration using simple vocabulary such as 1, 2, 3, lots, few, all gone, more, less but the main emphasis is on the exploration learning and having fun.



### Focuses for learning:

1. Understanding object permanence - knowing that an object continues to exist even when it is out of sight.
2. Developing skills for “looking” backwards / forwards between two objects
3. Making choices from two or more items.
4. Communicating “more” and “no more” using actions
5. Having fun with number activities, joining in with number songs, counting by pointing, saying number names (if able to), taking one item from a group or adding one item to a group.
6. Developing awareness and showing understanding of the concept of more, less and all gone.

I hope you have fun with these activities and if you have any photos you would like to share or any other ideas for exploring maths then we would love to see them

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## Number Songs from HelpKidzLearn

Go to the website [www.helpkidzlearn.com](http://www.helpkidzlearn.com)

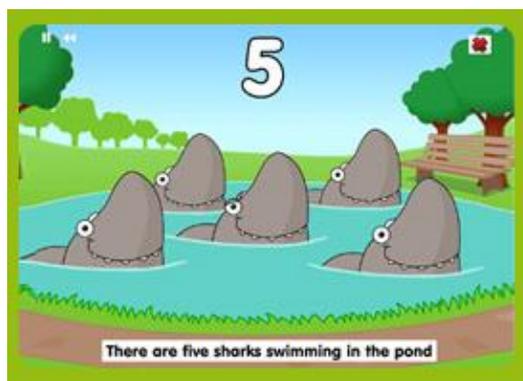
You will need to login to access the resources.



Click on login and then follow the steps above.



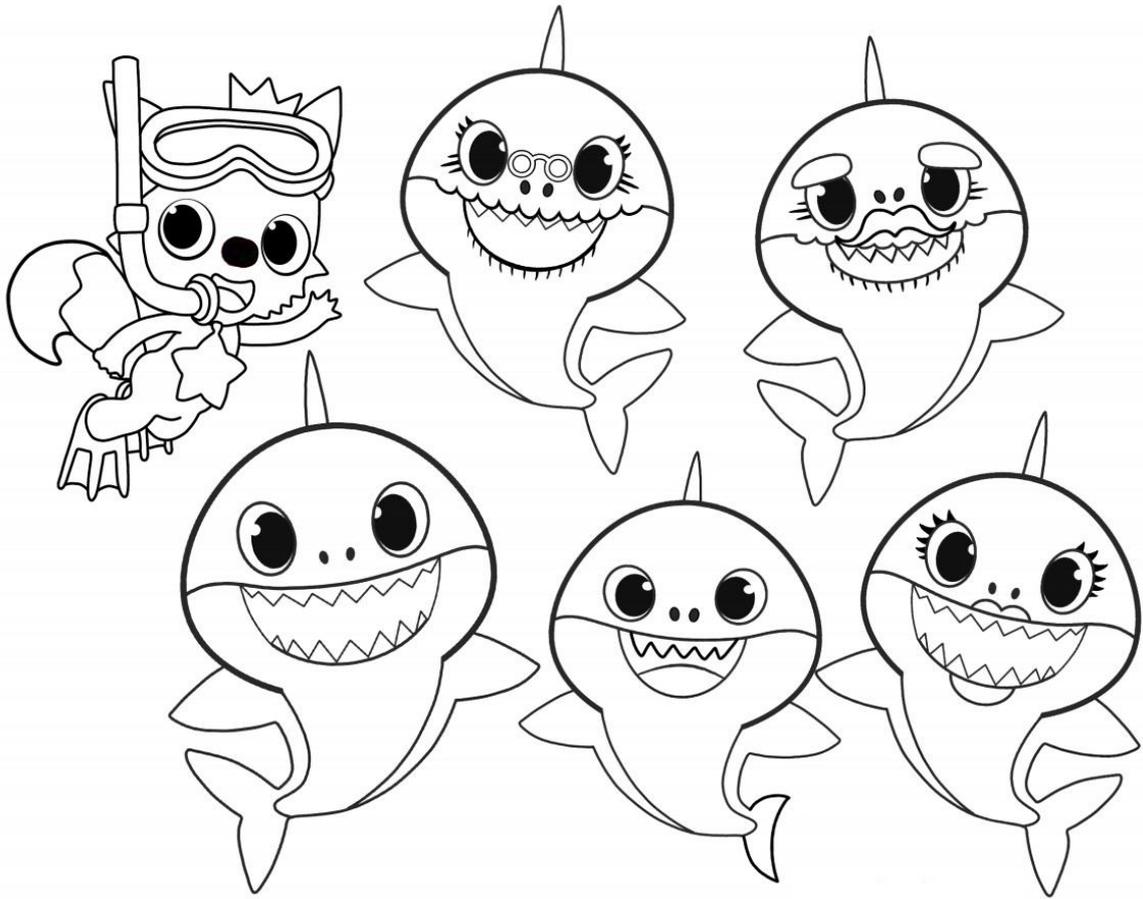
Choose “games and activities” from the options on the screen then choose “stories” from the bar at the top of the page.



To continue our Seaside Fun theme, I suggest the 5 girls in the ring and the 5 sharks swimming in the pond songs, but you can enjoy the other songs and stories too.



Here are some girls to colour. You can cut them out and remove them as the number of sausages in the song decreases.



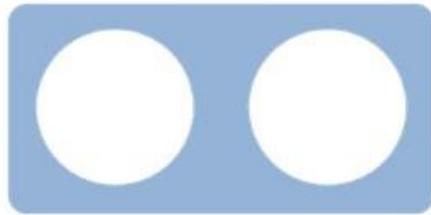
Here are some sharks to colour. You can cut them out and add them as the number of sharks in the song increases.

one



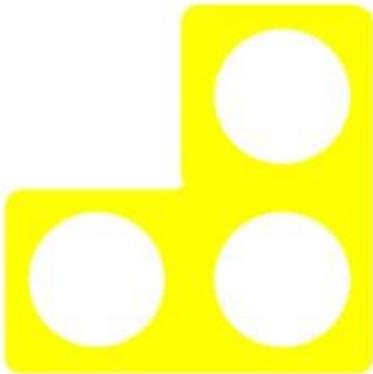
1

two



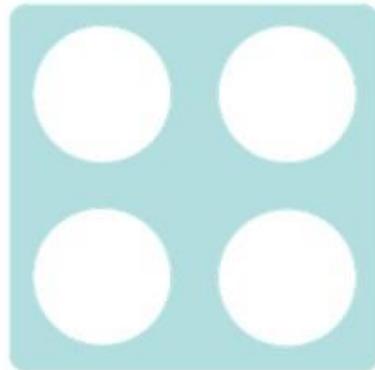
2

three



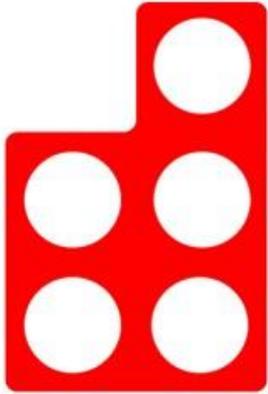
3

four



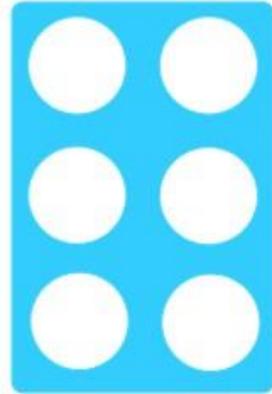
4

five



5

six



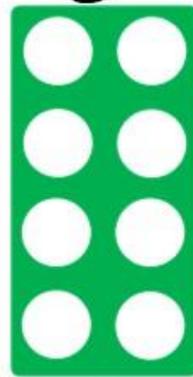
6

seven



7

eight



8



### **Filling trays with items**

Use a selection of trays with different sections explore putting items into each compartment.

Use a dice or number card to choose a number of items to put into the tray.

Count the items together supporting or encouraging the student to point to each item as you do so.



### **Cardboard posting box**

Make holes in a box and post items through the holes.

Count them as you do it.

Can you put one item into each hole?

Can you put 2 items in each hole?

Keep going until all the items are "gone".



### **Make Skittles**

Make a set of skittles using bottles or toilet roll tubes.

Count them as you stand them all up.

Throw the ball and knock them down – how many did you knock down?

Make it a competition – who can knock down the most?

How many times do you need to throw the ball to knock them all down?



### **Number Biscuits / Cakes**

Make cakes or biscuits and decorate them with sweets.

Count them as you add them.

How many will you put on each?

Which one has more?

Enjoy them until they are "all gone"!