



W.C. 13th July

Maths

After watching the videos have a go at some of the suggested activities.

We appreciate and are fully aware that families can only do their best with the technology and resources they have available.

(Please note these links are dated **week 6th July**. We have selected activities and work that is best suited to our Reception children)

Monday - Addition and subtraction within 20 - Part One.

For today's learning you will need:

- A piece of paper or whiteboard for recording.
- 20 objects for counting - cubes, counters, pasta shapes etc.
- 2 plastic cups
- 2 dice or 2 sets of number cards: 1-10.

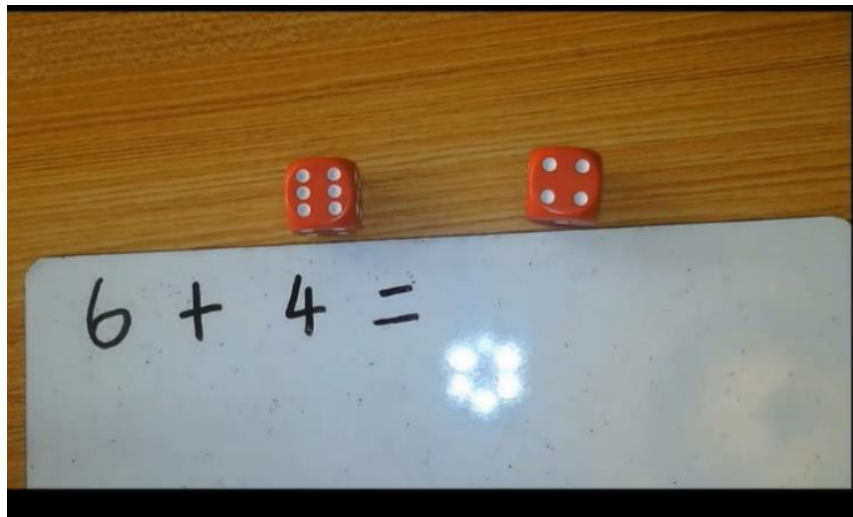
Please follow link: <https://classroom.thenational.academy/lessons/addition-and-subtraction-within-20-part-one/activities/1>

Activity 1

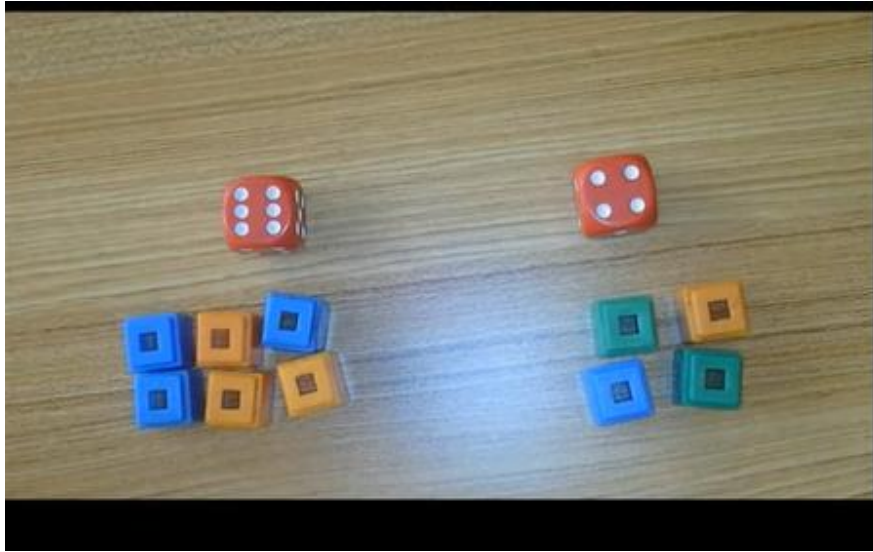
Addition: Give your child a cup with a dice inside and keep one for yourself. Ask your child to shake their cup and tip their die on to the table. Use interactive dice link if you are unable to find a dice: <https://www.online-stopwatch.com/chance-games/roll-a-dice/>

Adult repeats this step. When you have two numbers discuss how you are going to add them together. Write the two numbers onto a piece of paper or whiteboard.

See below:



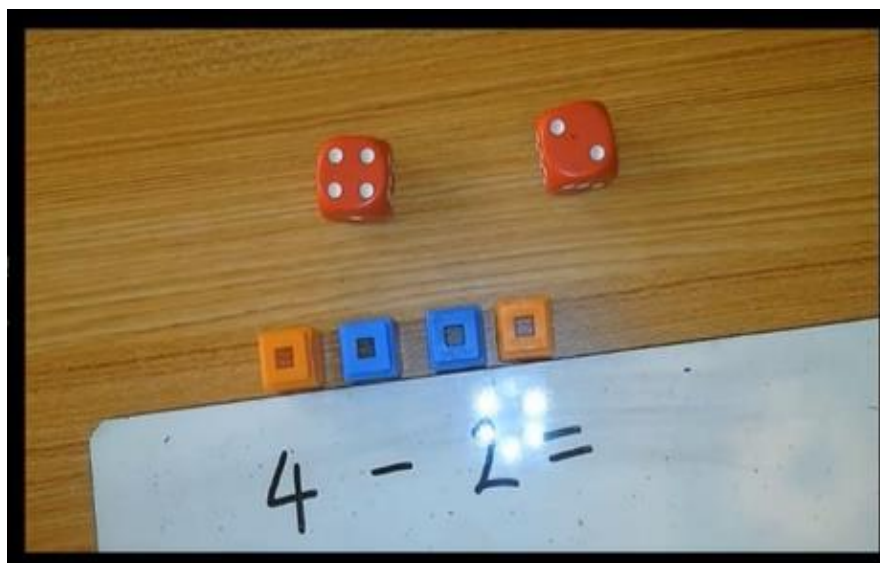
Ask your child if they can add the two numbers together. Your child may be able to put the first number in their store (head) and count on (touching the spots) to find the answer. Ask your child to use their counters or cubes to represent each number in the number sentence. See below:



Finally ask your child to count all of their counters to find the total and then write the answer on their paper or board.

Subtraction:

Repeat the game again with both the child and adult rolling their dice onto the table. Look at the two numbers and place the highest number first. Ask your child to write the numbers down as a number sentence e.g. $4 - 2 =$. Ask your child to say the number sentence out loud. Look at your highest number and collect that amount of counters. Place counters next to the number sentence. See picture below:



Ask your child to take away the second number and count how many counters are left. Ask your child to write the answer on their whiteboards. Encourage children to complete as many addition and subtraction sentences as they can by playing the game above.

Activity 2

Show your child the pictures below and ask them to write the number sentence that matches the picture e.g (picture 1 would be $5 + 5 =$) ask your child to collect counters to match the number sentence and find the total.

1

There are **five** deckchairs on the beach.



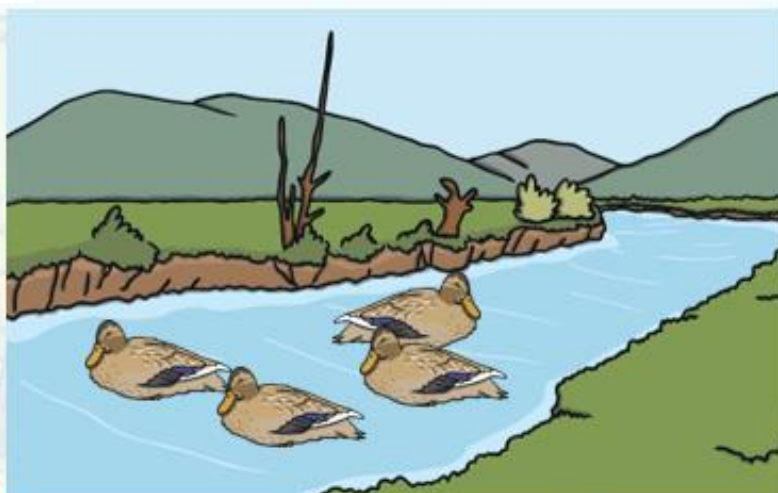
Five more
deckchairs are added.



How many are there **altogether**?

2

There are **four** ducks in a river.



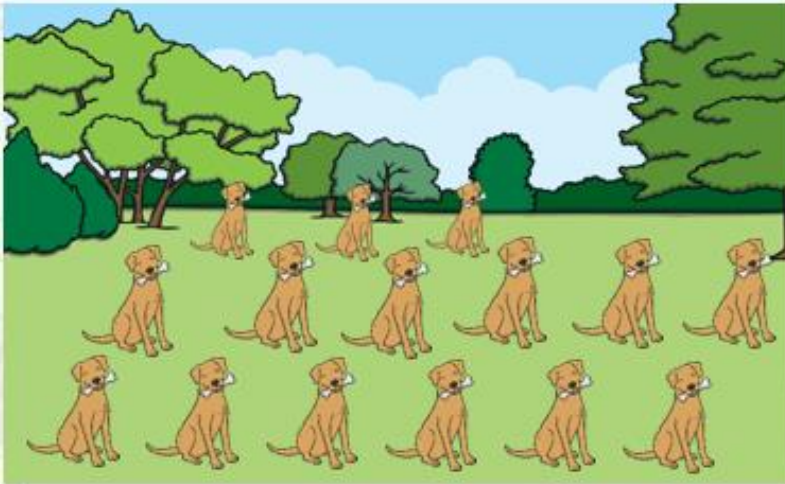
Three more
ducks arrive



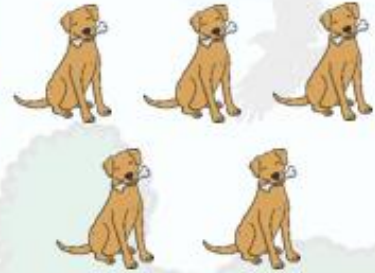
How many are there **altogether**?

3

There are **fifteen** dogs at the park.



Five more
dogs arrive.



How many are there **altogether**?

4

There are **ten** stars in the sky.



Two more
stars appear.



How many are there **altogether**?

Repeat the activity using the subtraction pictures below.

1

Subtraction Word Problem Challenge Cards

If you had 5 books and you have read 3 of them, how many would you have left?



twinkl.com

2

Subtraction Word Problem Challenge Cards

If you had 10 currant buns and 8 of them have been eaten, how many of them would you have left?

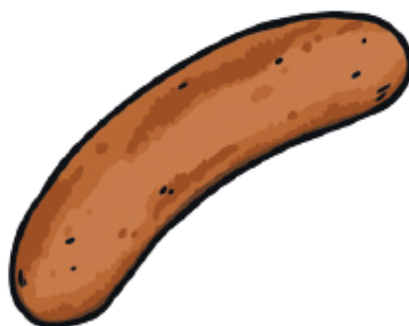


twinkl.com

3

Subtraction Word Problem Challenge Cards

If you had 10 sausages in a pack and you have cooked 4 of them, how many sausages would you have left in the packet?



twinkl.com

4

Subtraction Word Problem Challenge Cards

If you had 20 jelly beans and you have eaten 6 of them, how many would you have left?



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Tuesday - Depth of numbers within 20 - Part One.

For today's learning you will need:

- A set of number cards from 1-20 (these could be written on small pieces of paper).
- 3 plastic cups and counters for counting.
- Whiteboard or paper and a pen.
- 20 balls of playdough or tin foil.

Please follow link: <https://classroom.thenational.academy/lessons/depth-of-numbers-within-20-part-one/activities/1>

Activity 1

Play game demonstrated in the video - choose 6 number cards and ask your child to look at the numbers for 10 seconds. Cover the numbers with a cloth and take away one number. Ask your child to tell you the number that has been taken away. Repeat with different numbers. Play another game using three plastic cups and counters. Lift the cups one at a time and count how many counters are under each cup. Lift two cups and ask the children if they know how many there are altogether. Write the number sentence on a whiteboard or paper and count the counters to find the total. Repeat with different combinations using the cups. See example below:

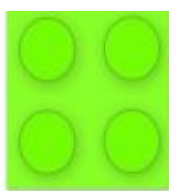


Activity 2

Look at the Lego addition picture below - ask your child to count the spots on the Lego to find the total. Encourage your child to put the first number in their store (head) and count on to find the total. You may wish to use your own Lego at home to complete some addition problems. Ask your child to write the sentences on a whiteboard.



+



=



+



=



+



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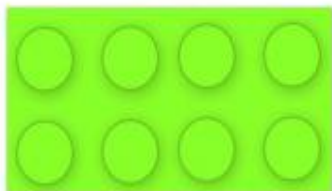
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+



=



+



=

Play subtraction smash: using play dough or foil make up 20 balls. Give your child a subtraction problem (these could be written on card or paper) ask your child to read the sentence out loud and collect the given amount. e.g. sentence is $3 - 1 =$ (ask your child to collect 3 balls). Next ask your child to 'smash' the amount of balls that need to be taken away. The amount left will be the total.

See picture below:



Wednesday - Addition and subtraction within 20 - Part Two.

Please follow link: <https://classroom.thenational.academy/lessons/addition-and-subtraction-within-20-part-two/activities/1>

Activity 1 -

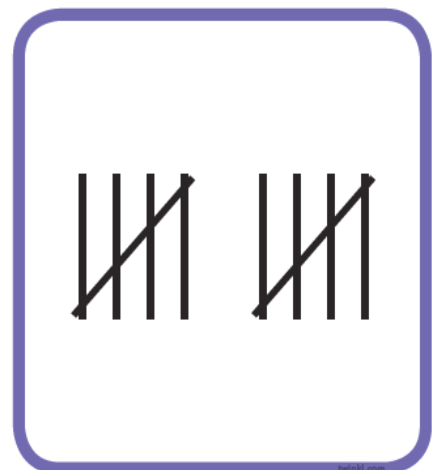
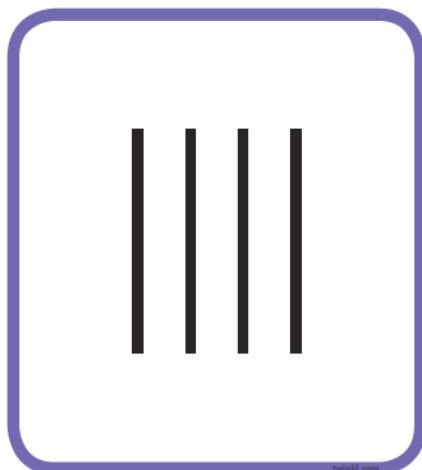
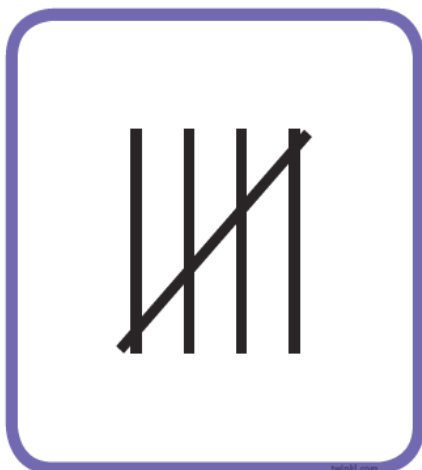
Watch the video of Zara playing a game with Reggie. Recreate this game at home by drawing a drainpipe with a ladder attached to the side. Create a ladder that has 20 steps on. Place worms on the steps in random positions. Lastly create two spider counters for you and your child to use (see picture below). Take turns to roll the dice and move your spider counter up the steps. Ask your child to identify the number rolled on the dice. Tell your child that if you land on a worm you have to go back to the beginning. As you move up and down the ladder discuss how many steps you have climbed altogether. Talk about how many steps you have left to reach the top. See who can get to the top first!

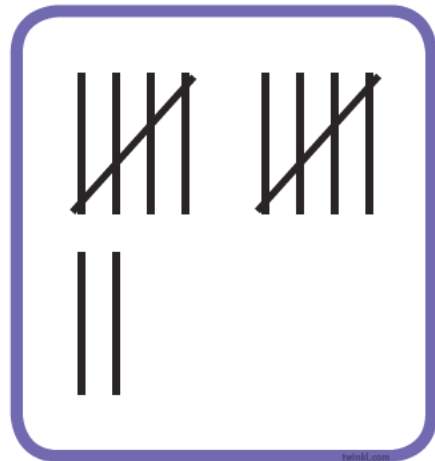
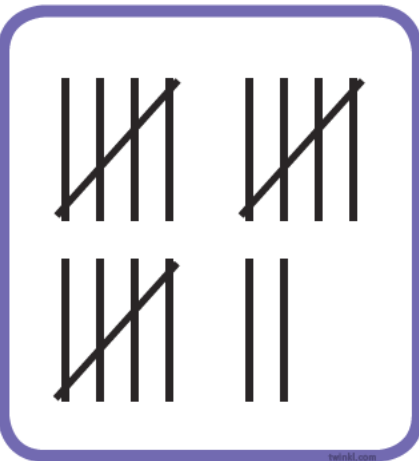
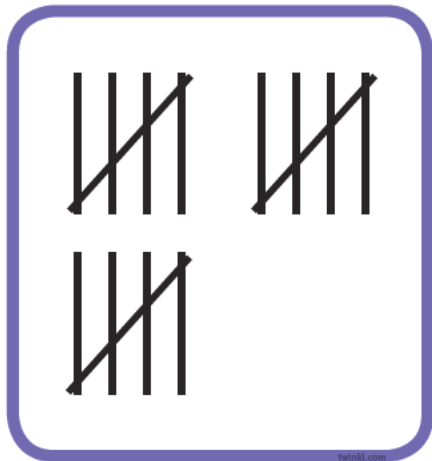
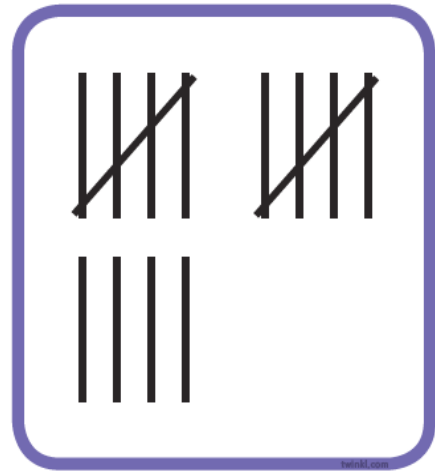
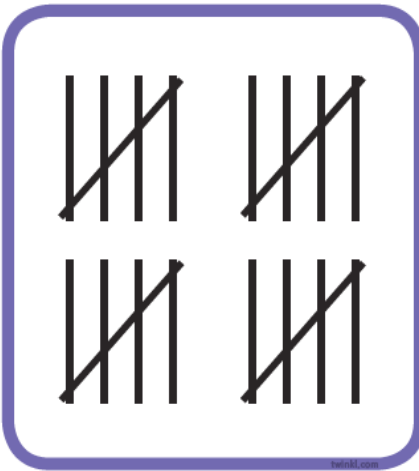
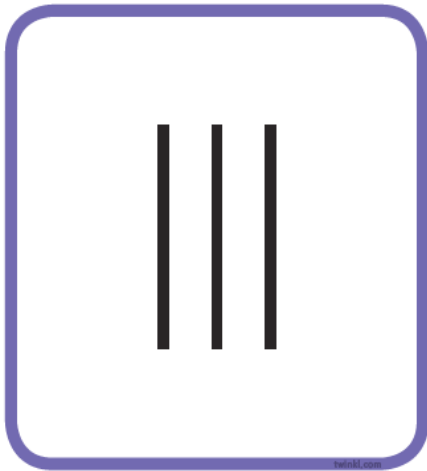
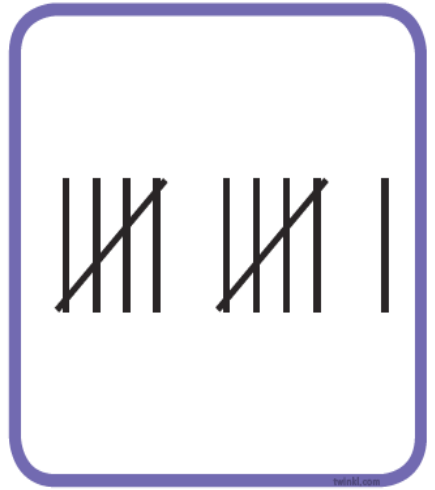
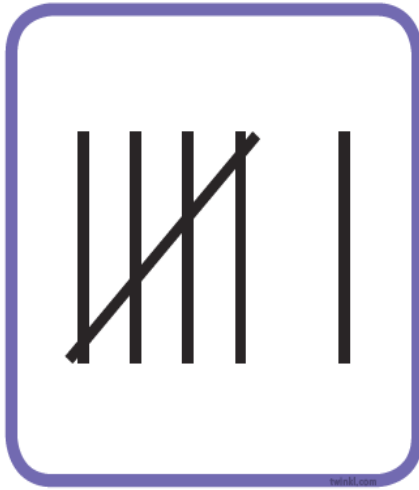
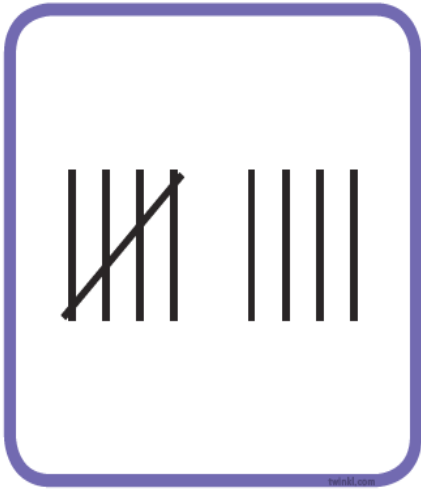
If you do not have a dice you could create a set of number cards 1-6 and turn these over to reveal the number of steps your spider can move.



Activity 2 -

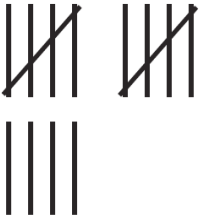
At the beginning of the video Zara showed us tally marks. Have a look at the pictures below. Ask your child to say what number the tally marks represent. Explain that we draw 4 vertical lines and a diagonal line to make five.





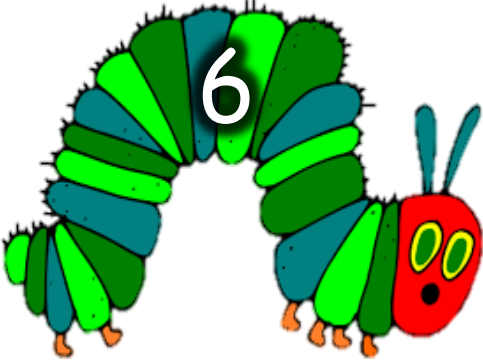
Look at the pictures below and create a tally to match the picture - you may wish to print this sheet or draw your own pictures. The first one has been completed for you.

Draw tally marks to count the pictures and write the number.

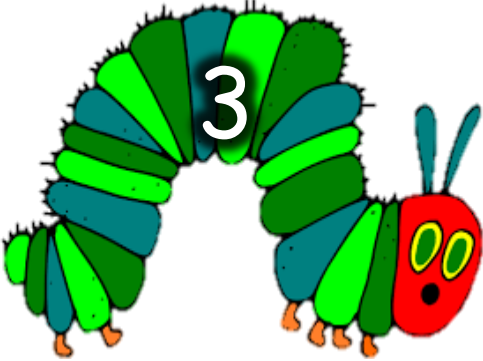
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Thursday - Depth of Numbers within 20 part two

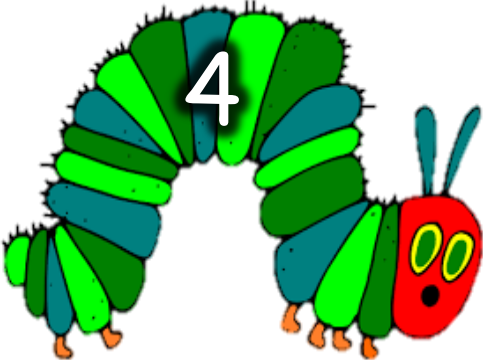
Activity 1: The Hungry caterpillar has already eaten so many items of food. Put the starting number on his tummy into your head and count on to find the total number of food items eaten by the Hungry Caterpillar altogether.

 $6 + 5 = \boxed{}$

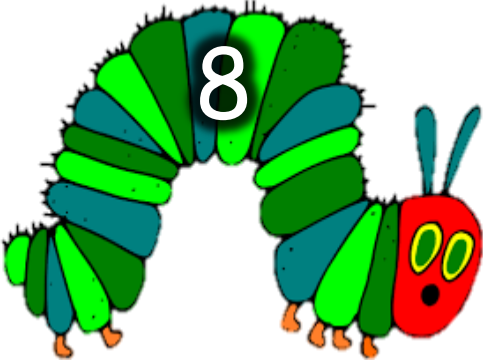
The caterpillar has 6 segments. There are 5 apples shown next to it.

 $3 + 4 = \boxed{}$

The caterpillar has 3 segments. There are 4 ice cream cones shown next to it.

 $4 + 6 = \boxed{}$

The caterpillar has 4 segments. There are 6 slices of watermelon shown next to it.

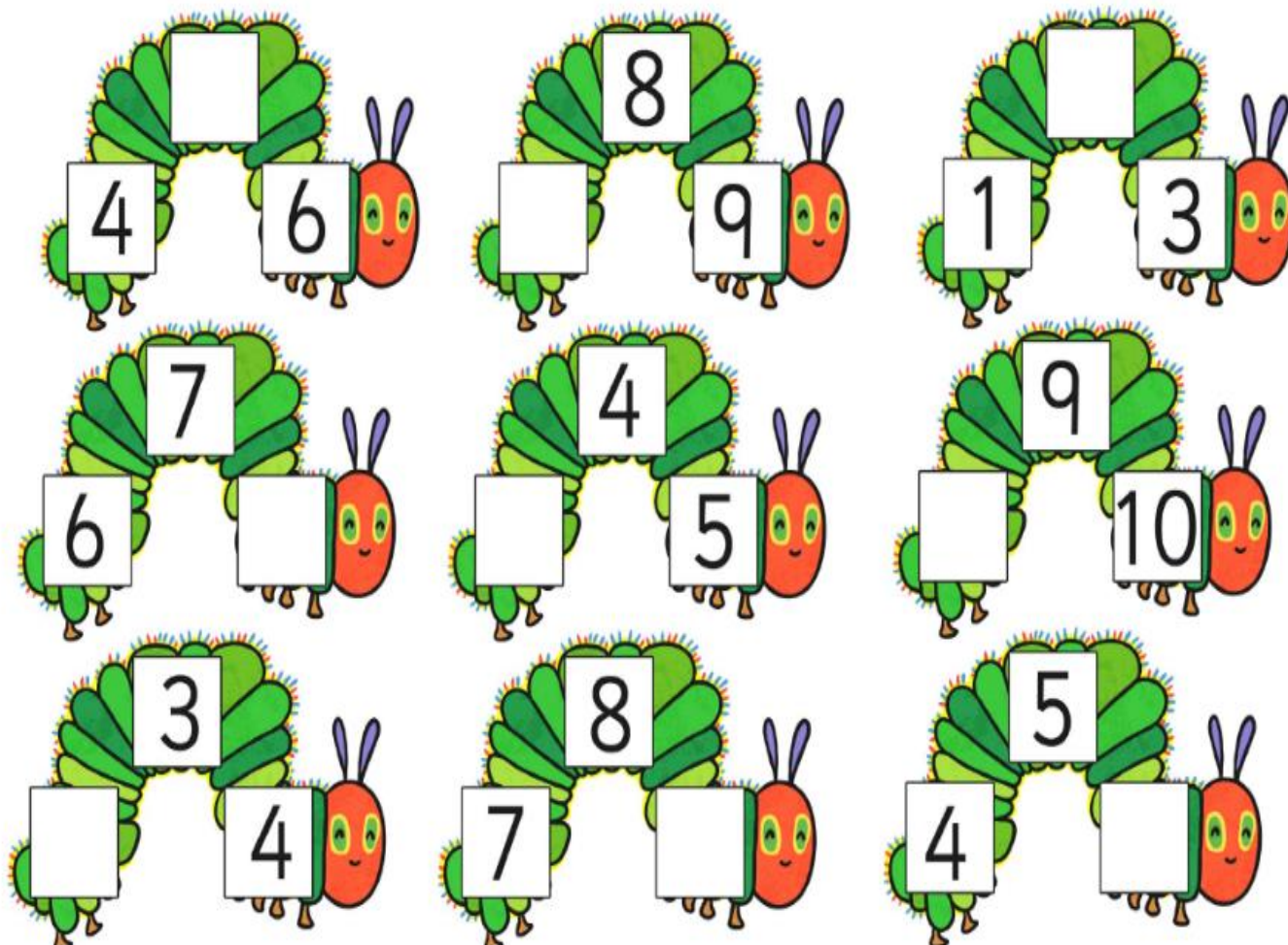
 $8 + 5 = \boxed{}$

The caterpillar has 8 segments. There are 5 slices of cheese shown next to it.

Activity 2:

Ask your child to look at each caterpillar and identify the missing number. Encourage your child to count on or back in their head to support them with finding out the missing number.

Number Sequencing Caterpillars



Friday - Addition and subtraction within 20-Part Three

Activity 1:

Challenge 1

Guess my number - write a number on a small piece of paper without any one seeing. Give your partner one clue e.g this number is double 3, this number is two less than ten, this number is two more than six etc. If you answer correctly you get to keep the number. The winner is the person with the most numbers at the end.

Challenge 2

Set timer and ask your child to play game. Time how quickly they can match each spotted ladybird to the correct number on web link: <https://www.topmarks.co.uk/learning-to-count/ladybird-spots> Play again and see if they can beat their previous time.

Activity 2:

Play number matching game on weblink: <https://nrich.maths.org/8282>
Encourage your child to say out loud the different numbers they see.