SHAWLANDS PRIMARY SCHOOL

BETTER TOGETHER

Family Maths Activities

Reception

About this booklet:

You can make a huge difference to your children's maths learning! This booklet aims to promote enjoyment of maths through discussion and working together on everyday maths!

It contains short, fun, 'real-life' activities for families to do together.

They are aligned to the English National Curriculum.

The activities can be spread out across the year, as suggested on the following pages or at your own leisure.

You might want to take photos, draw pictures, write calculations or create diagrams - it's up to you!

Evidence shows that talking about everyday maths helps develop children's maths confidence. Here are some questions that you can ask each other when tackling the activities:

- What do we need to do?
- What information do we have? What do we need to find out?
- Would any equipment help?
- What do you notice when...?
- Shall we make a guess and see if it works?
- What could we do if we get stuck?
- What could we do differently next time?

You can adapt these activities to suit your family's interests and use whatever items you may have to hand, at home or out and about.

SHAWLANDS PRIMARY SCHOOL

Reception Long Term Plan – Curriculum Overview

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Reception	Subitising Counting, ordinality and cardinality Measure and patterns Composition Circles and triangles Comparisons	Counting, ordinality and cardinality Comparisons Shapes with four sides Composition Length Height and time	Counting, ordinality and cardinality Subitising Composition	Composition Counting, ordinality and cardinality Comparison Mass and capacity	Composition Counting, ordinality and cardinality Subitising Explore 3-d shapes	Manipulate, compose and decompose Composition Comparison Repeating patterns

Suggested Delivery of Challenges

Challenge	Term	EYFS Framework Link
1, 2 and 3 maths sorting activity	Autumn 1	Subitising 1, 2 and 3
Baby Owls Size Ordering	Autumn 1	Ordering objects by size
Lightest to heaviest	Autumn 1	Use the language heavy and light
Circles and triangles in the Environment	Autumn 1	Circles and triangles
Snack time	Autumn 2	Comparing numbers (to 5)
Shapes with 4 sides to the rescue!	Autumn 2	Shapes with four sides
Length	Autumn 2	Explore and compare length
Height	Autumn 2	Explore and compare height
Making 5!	Autumn 2	Compose 5
Cookie jar	Spring 1	Match numerals to quantities within 10
Round and round the teddies	Spring 1	Counting beyond 20 verbally
Maths: All about the number 6	Spring 1	Counting, ordinality and cardinality
5 and a bit: Tens frame activity	Spring 1	Composition – 6, 7 and 8
Polar animals 1 more 1 less	Spring 2	Comparing numbers
Maths: All about the number 7	Spring 2	Counting, ordinality and cardinality
Number 8 mat	Spring 2	Composition – number 8
Compare mass	Spring 2	Compare mass
Double dominoes to 10	Summer 1	Doubles
What's for dinner?	Summer 1	Odd and even
Maths: Naming 3D shapes	Summer 1	3D shapes – identify and name. 3Dshapes in the environment
5 and a bit flashcards	Summer 1	Composition
Shape pictures	Summer 2	Select shapes for a purpose
Maths: All about the number 10	Summer 2	Counting, ordinality and cardinality
Can you continue the pattern?	Summer 2	Repeating patterns
Part whole number bonds of 5	Summer 2	Number bonds to 5

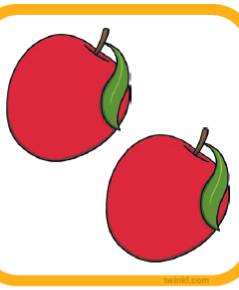
1, 2 and 3 Maths Sorting Activity

Can you sort 1, 2 and 3?

1 one 	2 two 	3 three 





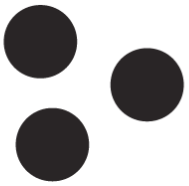




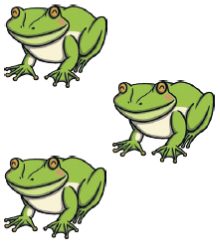
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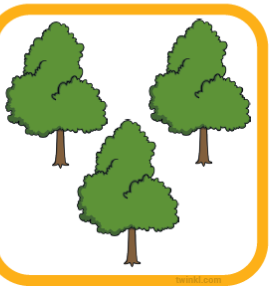
three













1

one









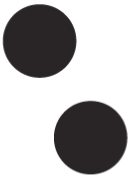




2

two





Baby Owls Size Ordering

Stick the baby owls in order from smallest to largest.

smallest

largest

Lightest to Heaviest

Cut out and order the following items from lightest to heaviest.



















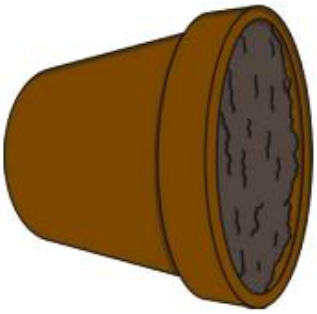
Full and Empty Sorting Activity

Cut out each picture then sort them into the correct boxes.

Full

Empty







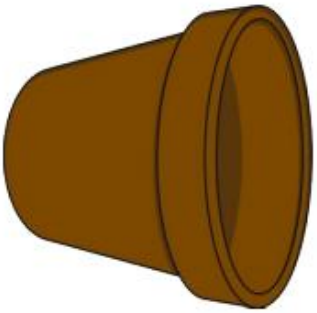














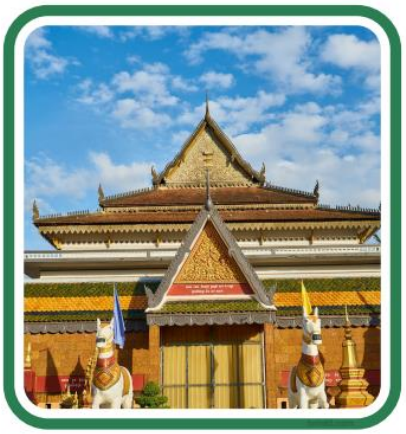




Circles and Triangles in the Environment

















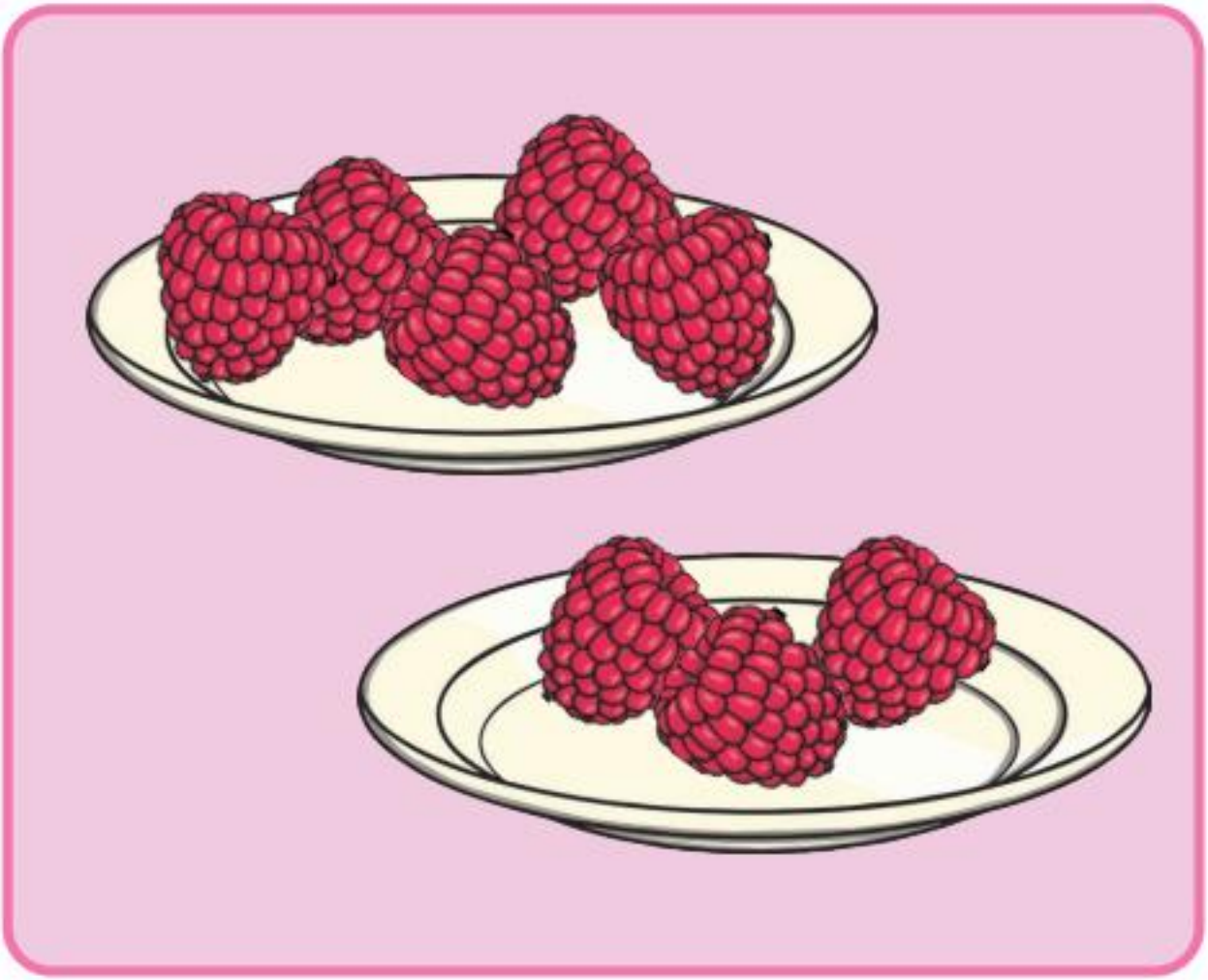








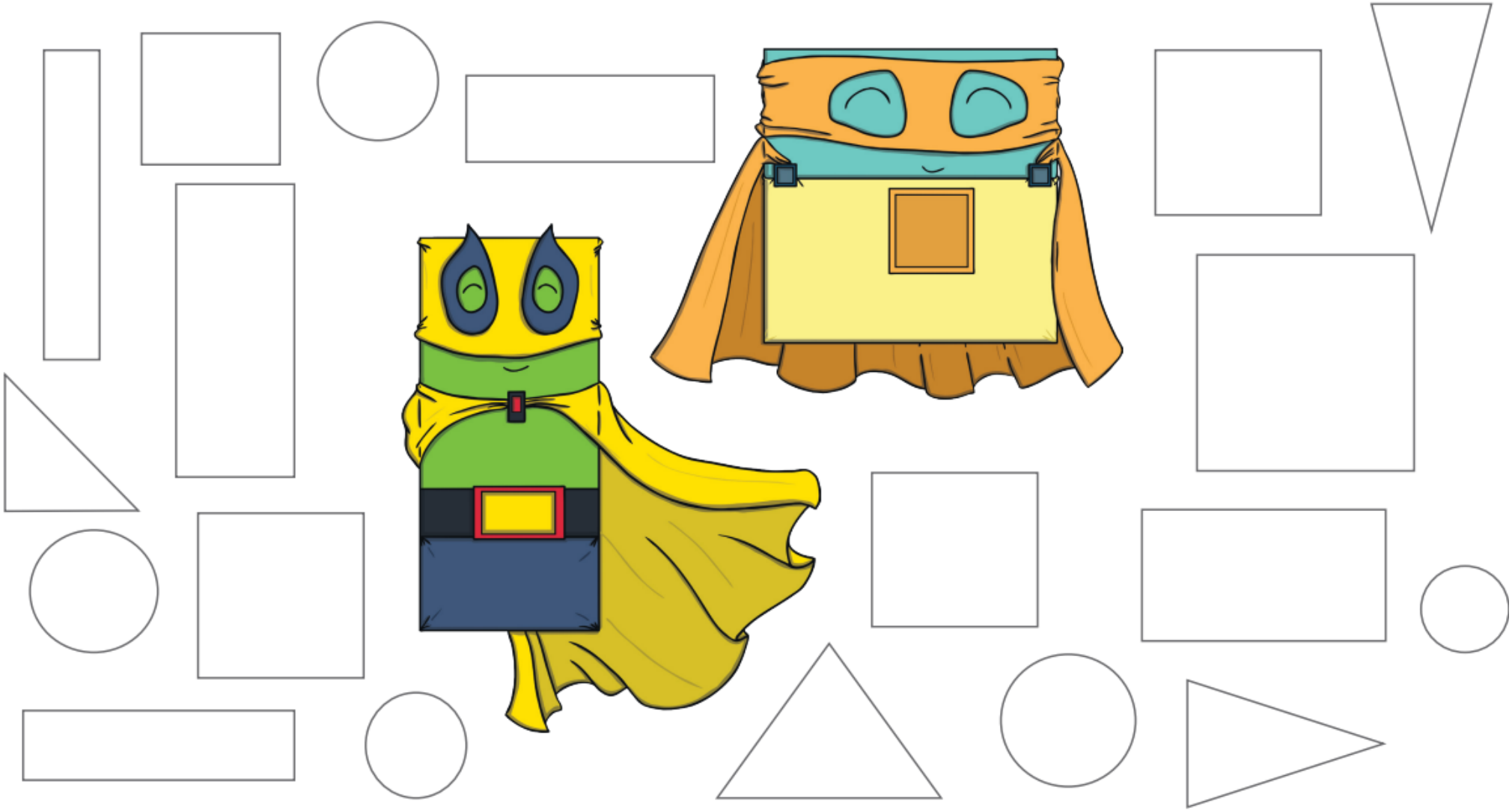
Snack Time



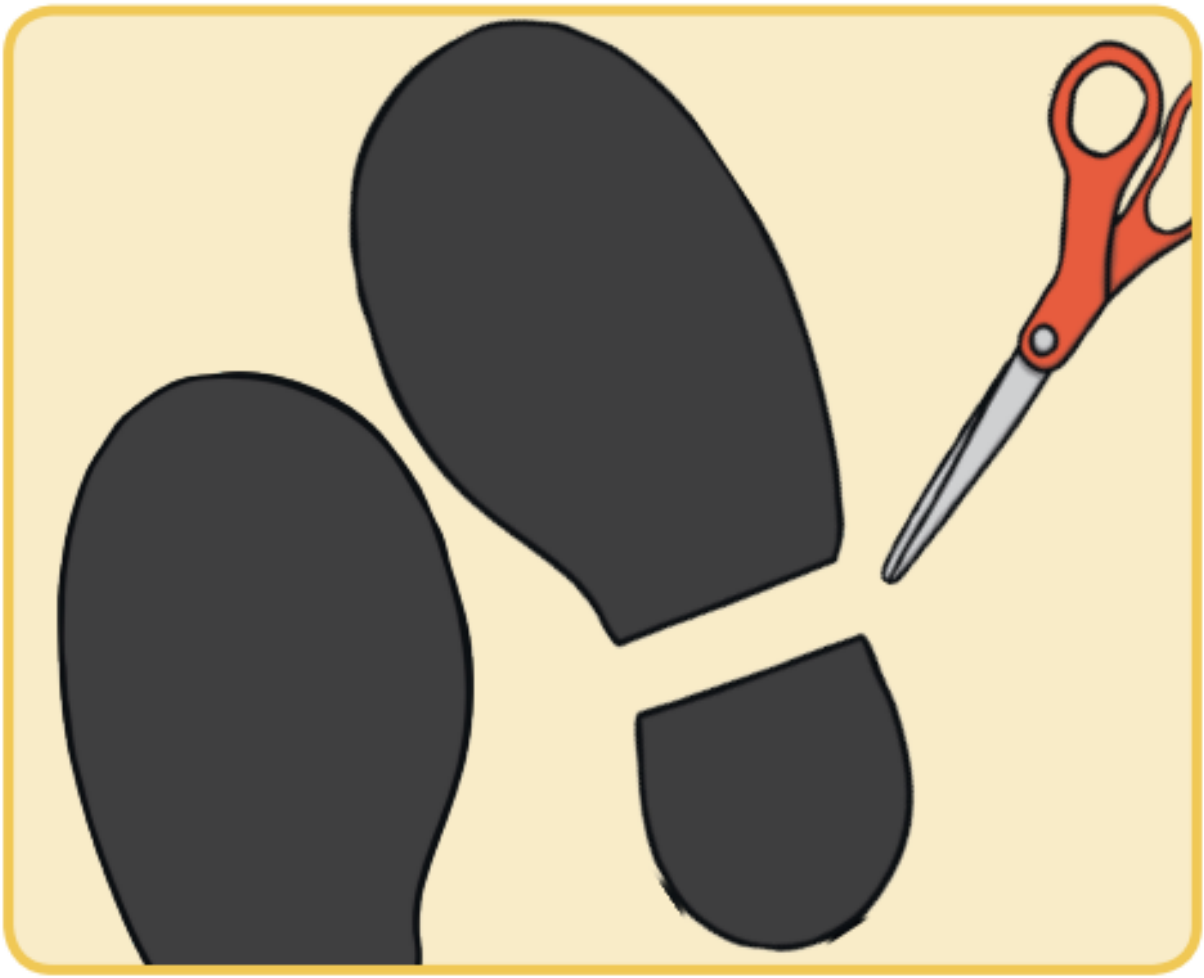
- Can you count the number of snacks on each plate?
- Can you describe what you can see?
- Which plate has more?
- Is it fair if one plate has more than the other?
- How can you make the same number of snacks on each plate?

Shapes with 4 Sides to the Rescue!

Can you help Rectangle and Square to find all of the shapes with 4 sides? Can you colour all of the shapes with 4 sides?



Length



- Draw around your shoe on two pieces of paper. Then, cut the footprints out.
- Can you use the footprints to measure the length of the rooms in your house?
- Which room is the longest?
- Which room is the shortest?

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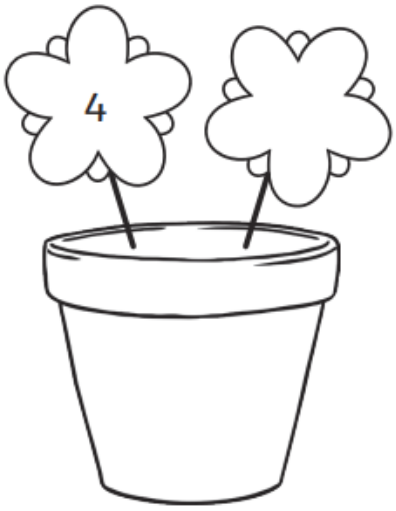
Height

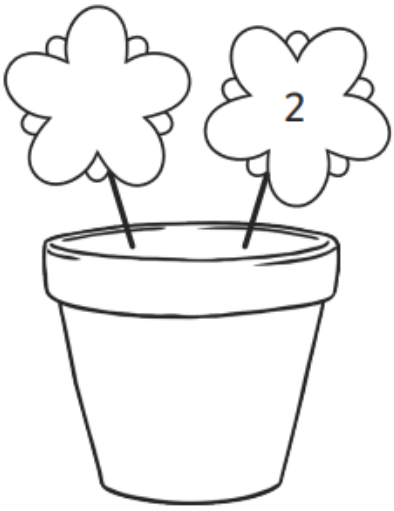


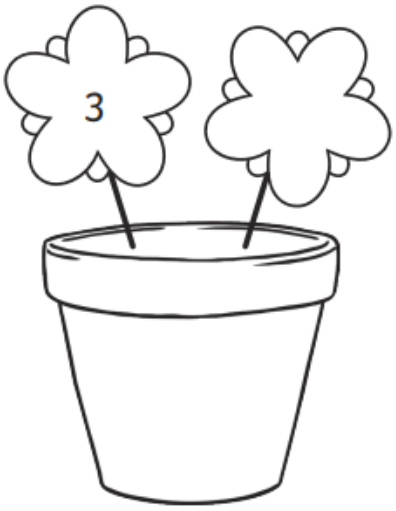
- Which toy is tall? Which is the tallest?
- Which toy is short? Which toy is the shortest?
- Can you think of another way to measure the height of your toys?
- How could you describe the toys that are in the middle?

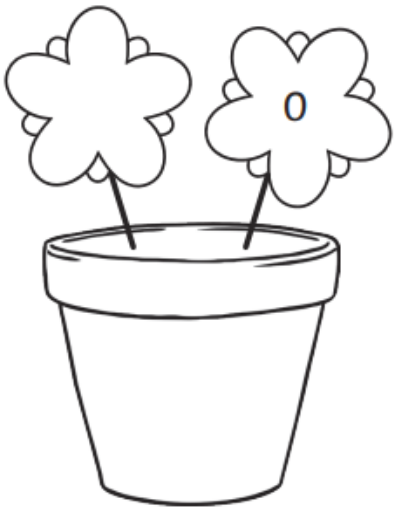
Making 5!

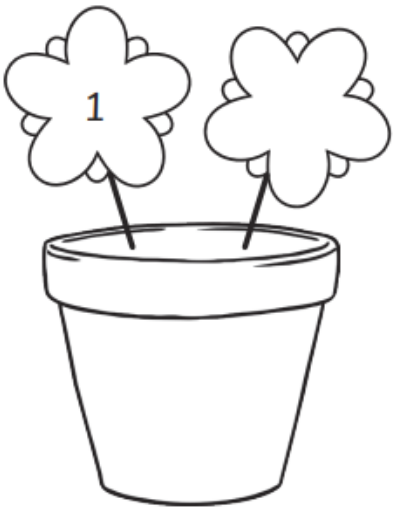
Fill in the empty flower so they both add up to 5.

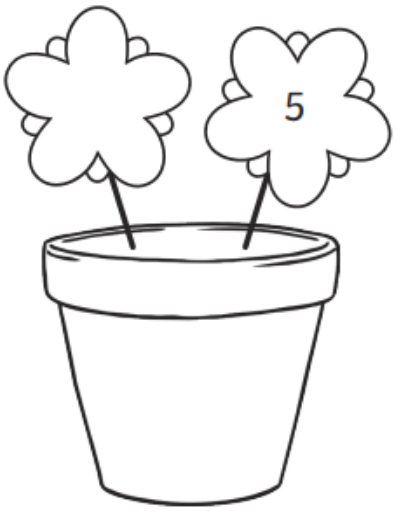


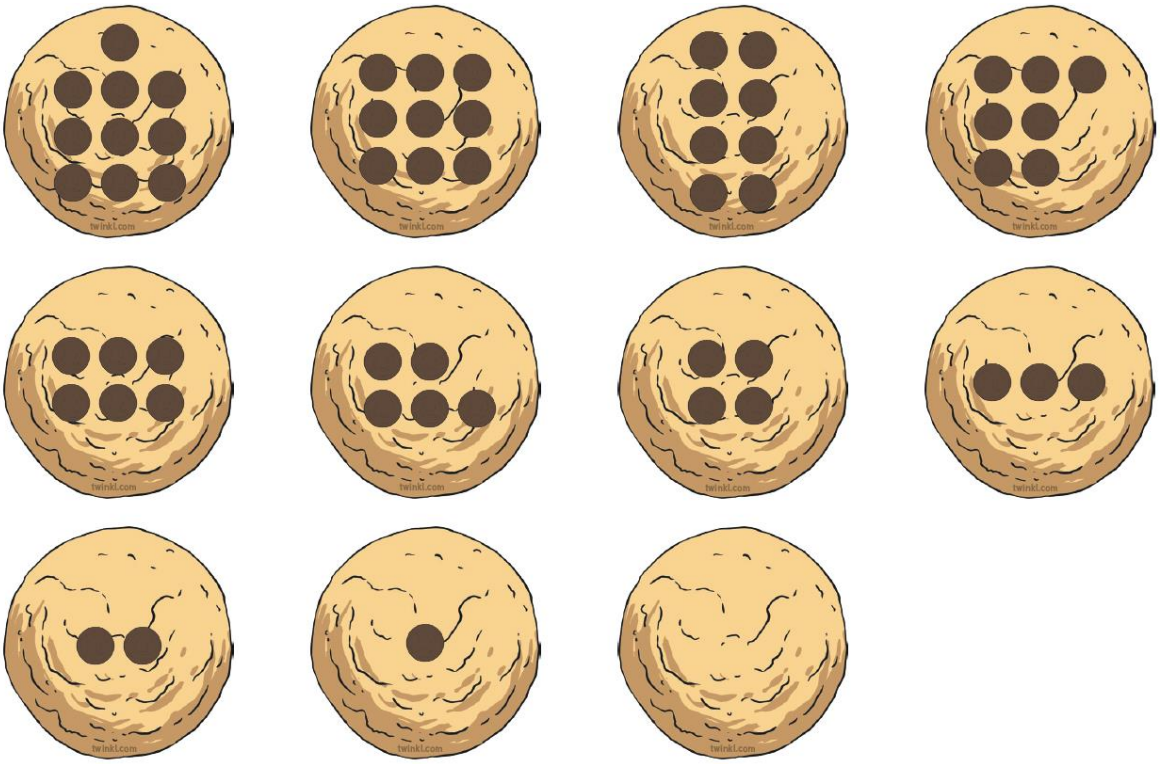


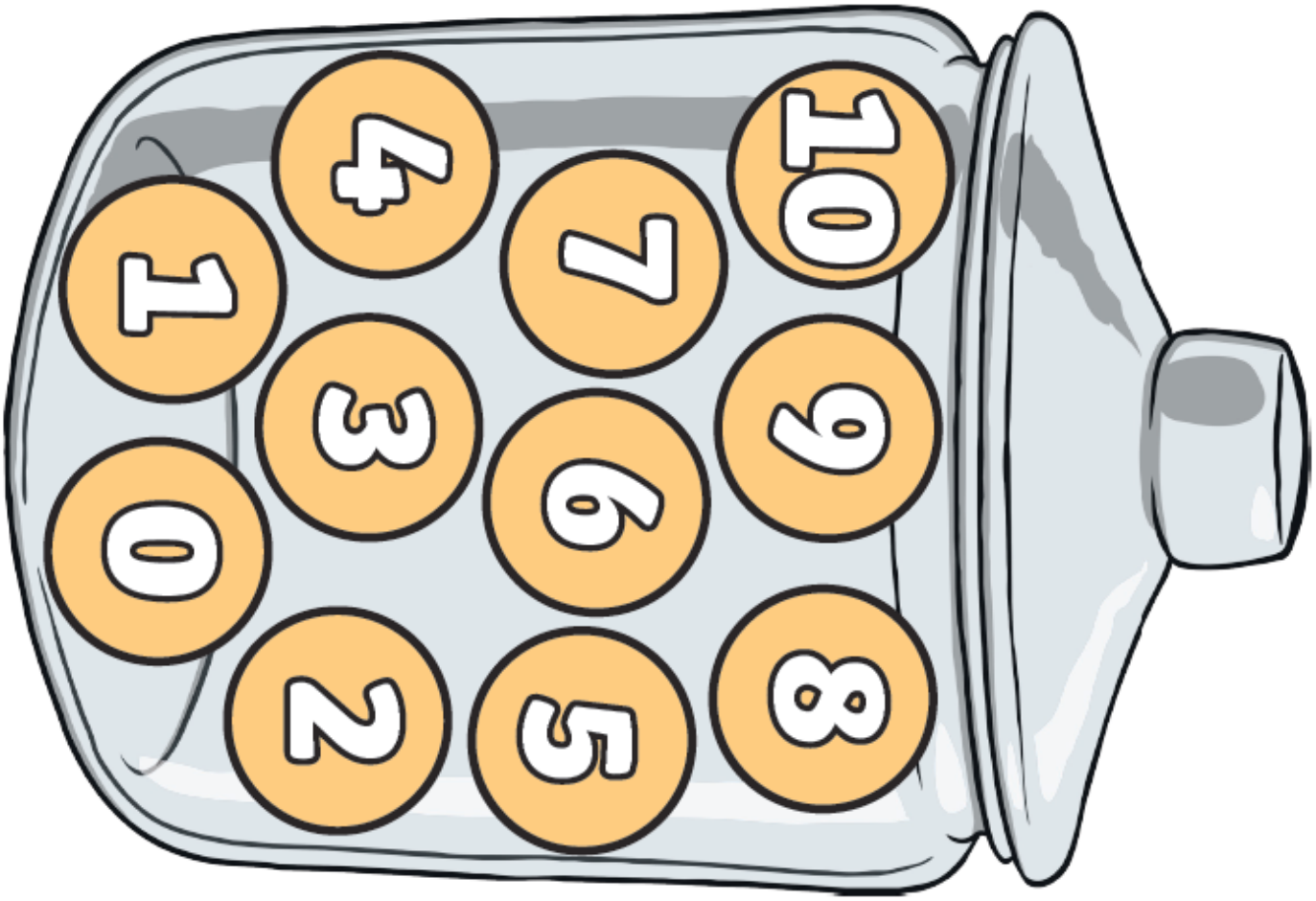











4
10
1
7
3
9
6
0
2
5
8

Round and Round the Teddies



- Arrange your toys in a circle.
- Choose which number to start counting from.
- Which number comes next?
- Keep counting around the circle until you reach the number 30. Then, remove that toy.
- Do you notice any patterns in the numbers as you count?

Maths: All about the Number Six

Home Learning Challenges



Hidden around the page are 6 penguins. Can you find them all? Can you draw a fish next to each penguin? How many fish did you draw altogether?



Insects have 6 legs. Draw a picture of a ladybird. Can you give it 6 legs? Can you give it 6 spots too?



Benjamin Bear went to the shops. He bought a book, a ball, an apple, a cake, a pen and a hat. How many things did he buy altogether? Try drawing some pictures to help you work out the answer.



Have a look at a reading book. Can you find the page numbers? Can you find page 6? Can you see the number 6 on this page too? Can you trace over the numbers at the bottom of the page? You could try writing the number 6 on your own too.



Have a look at a dice. You could use one from a board game or make one out of paper. Can you count how many sides it has? Can you find the side that shows six spots? Play a game with a grown-up. Take turns to roll the dice 6 times each, who can roll the most 6s?





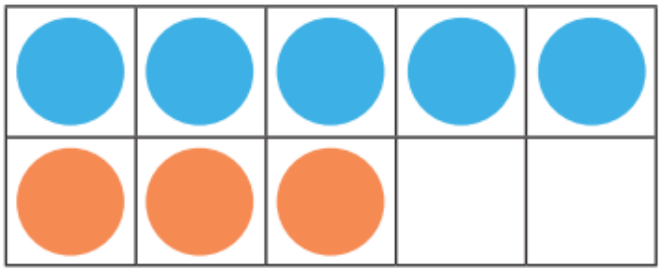
Go on a visit to the shops with a grown-up. Look for some food that comes in sets of 6. For example, can you find a box of 6 eggs? Can you find a packet of 6 cakes or a pack of 6 yoghurts? Try counting some sets by carefully pointing to each item.



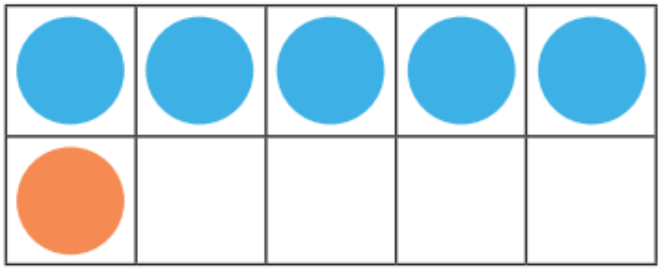
6 6 6 6 6 6

Five and a Bit Ten-Frames Activity

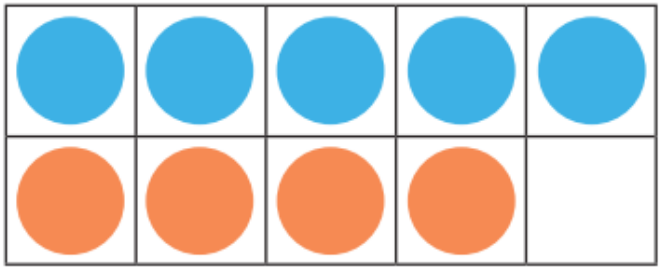
How many dots are there on the ten-frame?
Can you describe this as 'five and a bit'?



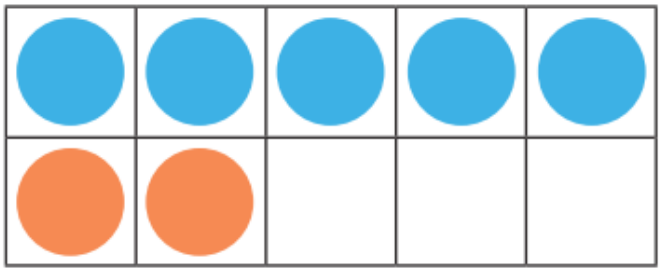
5 needs ☐ more to make 8



5 needs ☐ more to make 6



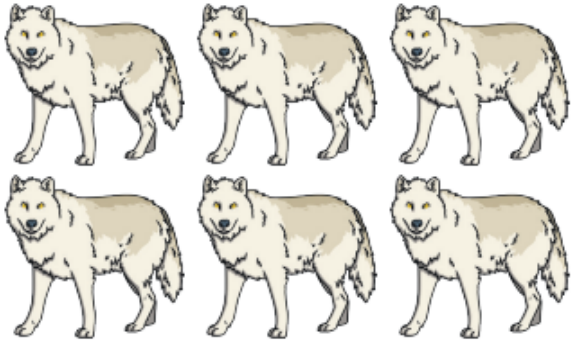
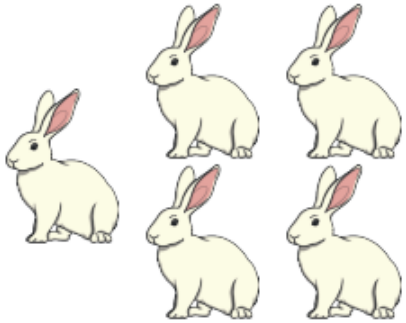
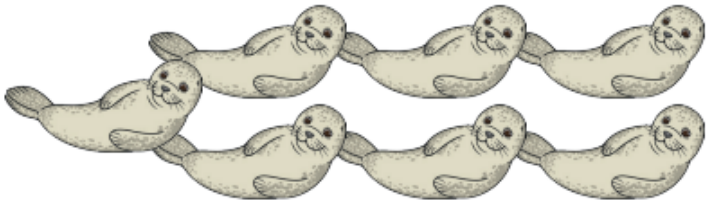
5 needs ☐ more to make ☐



5 needs ☐ more to make ☐

Polar Animals 1 More and 1 Less to 8 Activity

How many animals are there? Write the number. Then, write the number for 1 more and for 1 less.

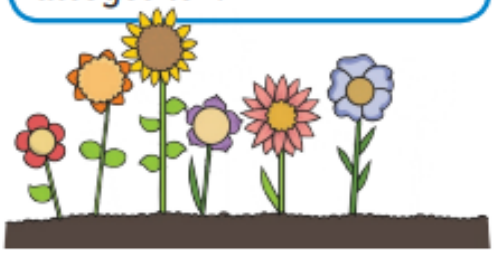
1 less	How many?	1 more
		
		
		

Maths: All about the Number Seven

Home Learning Challenges

Hidden around the page are 7 little mice. Can you find them all? Draw a piece of cheese next to each mouse. How many pieces of cheese did you draw in total?

There were 6 flowers growing in a garden. If 1 more is added, how many flowers are there altogether?





Have you seen a rainbow before? Rainbows can appear when it is sunny and rainy at the same time. There are 7 colours in a rainbow: red, orange, yellow, green, blue, indigo (dark blue) and violet (purple). Draw or paint a picture of a rainbow. Can you include all 7 colours?

Ask a grown-up to help you look at a calendar or diary. Can you count the days of the week? How many are there? Can you write a list of the different days?

Have a look at a reading book. Can you find the page numbers? Can you find page 7? Can you see the number 7 on this page too? Can you trace over the numbers at the bottom of the page? You could try writing the number 7 on your own too.

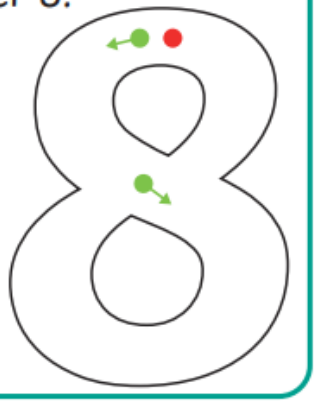


On the Planet Seven, the aliens all have 7 eyes! Can you create a model or a picture of an alien to live on Planet Seven? You could use playdough, empty packaging, or draw or paint a picture of your alien. Make sure you count the eyes very carefully!



7 7 7 7 7 7

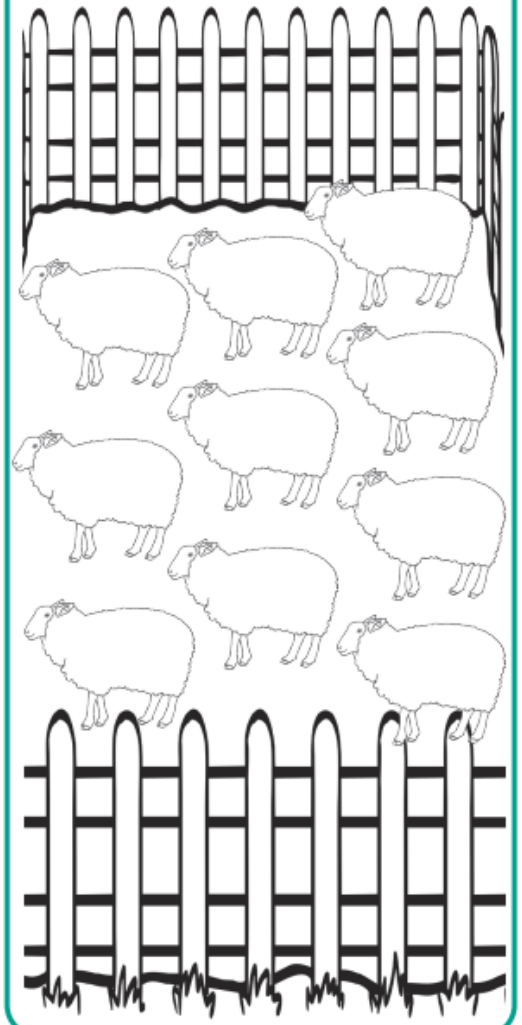
Can you practise writing the number 8? Make an 'S' and close the gate. Now I've made a number 8.



How many times can you write the number 8?



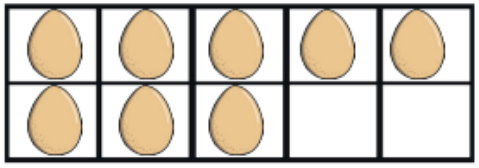
Number Eight saw 8 sheep in a pen. Can you colour 8 sheep in this pen?



Can you draw 8 apples on the apple tree?



Look at the egg box. It has 8 eggs in it. Can you try and draw 8 eggs in another way?





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Comparing Mass

Home Learning Challenges

Can you order three objects using the language 'heavy', 'heavier' and 'heaviest'? Pick up the objects to feel the weight and compare them.



Can you order three objects using the language 'light', 'lighter' and 'lightest'? Pick up the objects and compare how they feel.

Ask your grown-up to give you two mystery bags. One is heavy and one is light. What do you think could be in each bag? Talk about your ideas and draw the object that you think could be in each mystery bag. Are heavy things always big? Are light things always small?



Follow a recipe with an adult to make a tasty treat. Can you help to weigh the different ingredients? Talk about how the balance scales change as you add more.



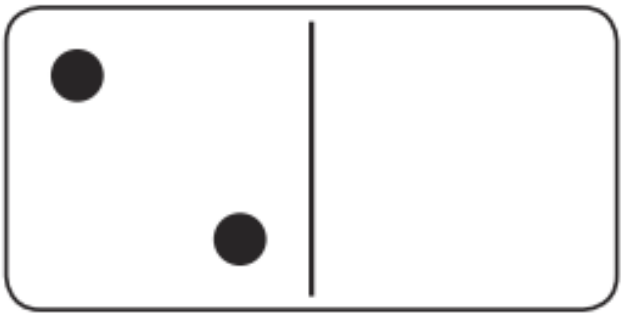
Can you be a human balancing scale? Ask your grown-up to pass you an object to hold in each hand. Which is heavier? Which is lighter? How can you show this with your arms? What happens if they weigh the same?



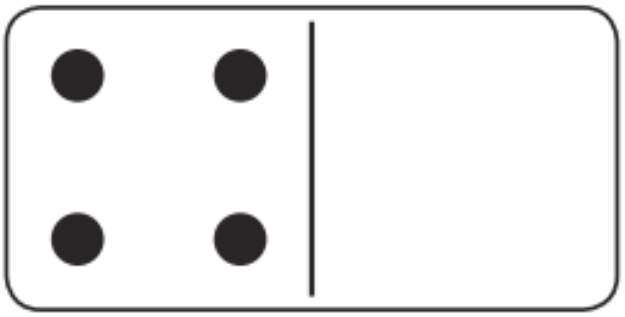
Take one piece of fruit. Can you find an object that is heavier than that piece of fruit? Can you find an object that is lighter? Can you find something that is equal in weight to the fruit?



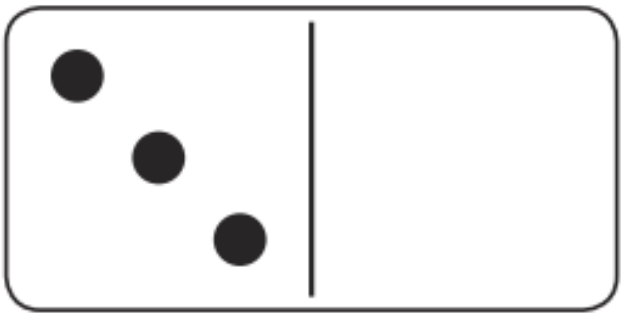
Double Dominoes to 10



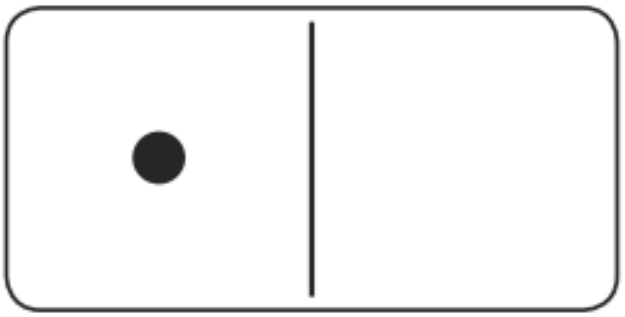
Double 2 is _____ .



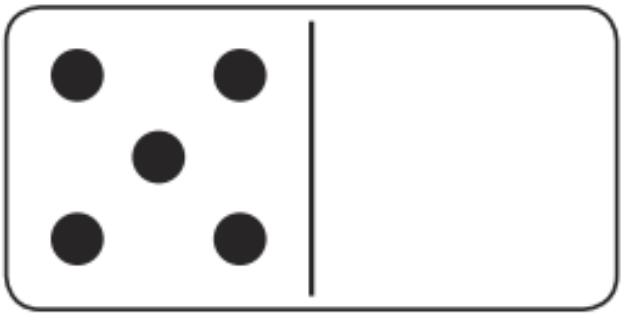
Double 4 is _____ .



Double 3 is _____ .



Double 1 is _____ .



Double 5 is _____ .

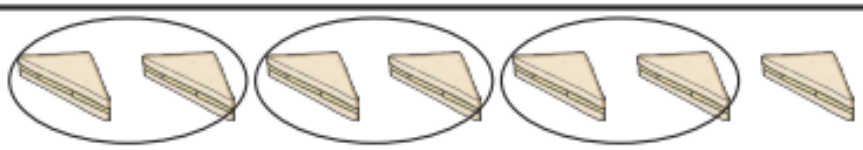


Double 0 is _____ .

What's for Dinner?

Pair the food items shown below by drawing circles around them. Then, write the number of items and say whether it is odd or even. The first one has been done for you.



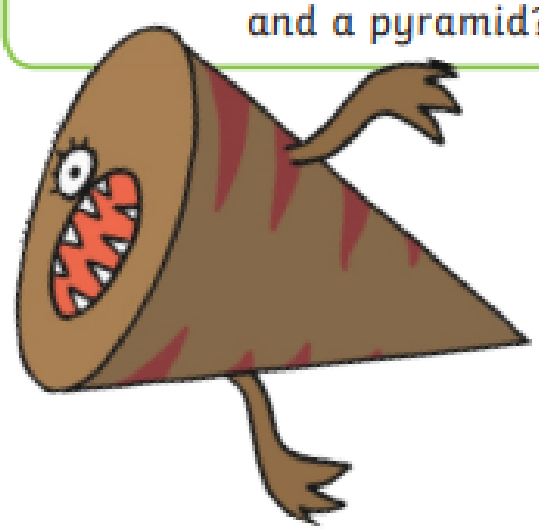
	7	(odd) even
		odd even
		odd even
		odd even
		odd even
		odd even
		odd even
		odd even
		odd even
		odd even

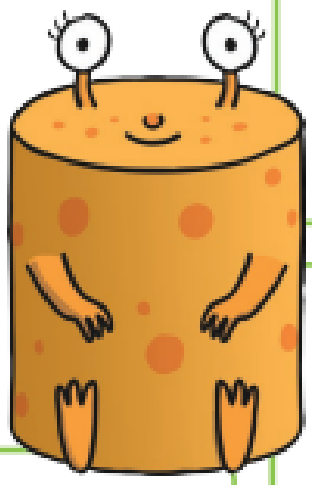
Maths: Naming 3D Shapes

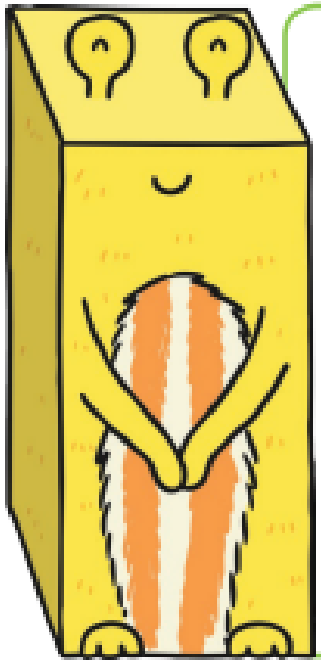
Home Learning Challenges

Look at some empty packages and boxes. What shape are they? Can you find a cube, a cylinder or a cuboid shape? Bring in some 3D shape boxes to show the class.

Use some playdough or salt dough to make 3D shapes. Can you make a sphere, a cube, a cuboid, a cylinder and a pyramid?

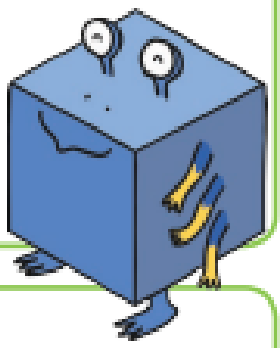






Use some empty cardboard boxes and packaging to make a model. Maybe you could make a model house, a car, a castle or a robot. Talk to an adult about the different shapes you use. Which shapes are easiest to build with? You could take a photo or draw a picture of your finished model.

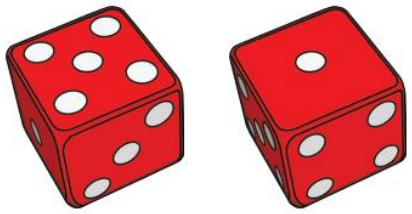
Make a collection of small objects that are 3D shapes, such as a small ball, a toy building brick, a dice and a glue stick. Hide the objects in a bag and then put your hand in the bag to choose one of the objects. Describe the shape to an adult and see if they can guess the shape you are holding. Then, they could describe a shape for you to guess!



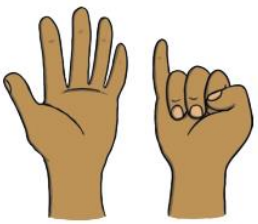
Go on a 3D shape hunt around your house. What 3D shapes can you find? See if you can find a sphere, a cube and a cuboid. Can you find any other 3D shapes? What are they called?

Go on a 3D shape hunt, next time you are in a shop. What different 3D shapes can you find? Try looking at different food packaging (tins and boxes are some good examples).

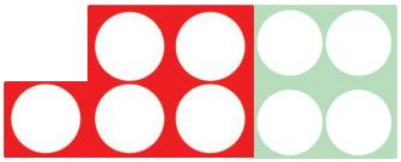
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What are the parts?



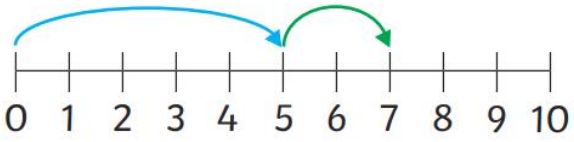
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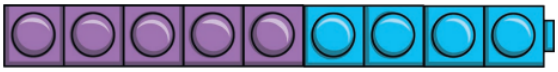
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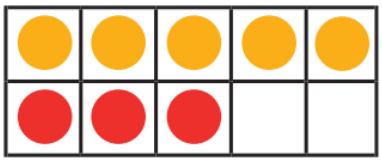
What is the whole?
What are the parts?



What is the whole?
What are the parts?



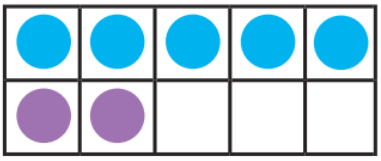
What is the whole?
What are the parts?



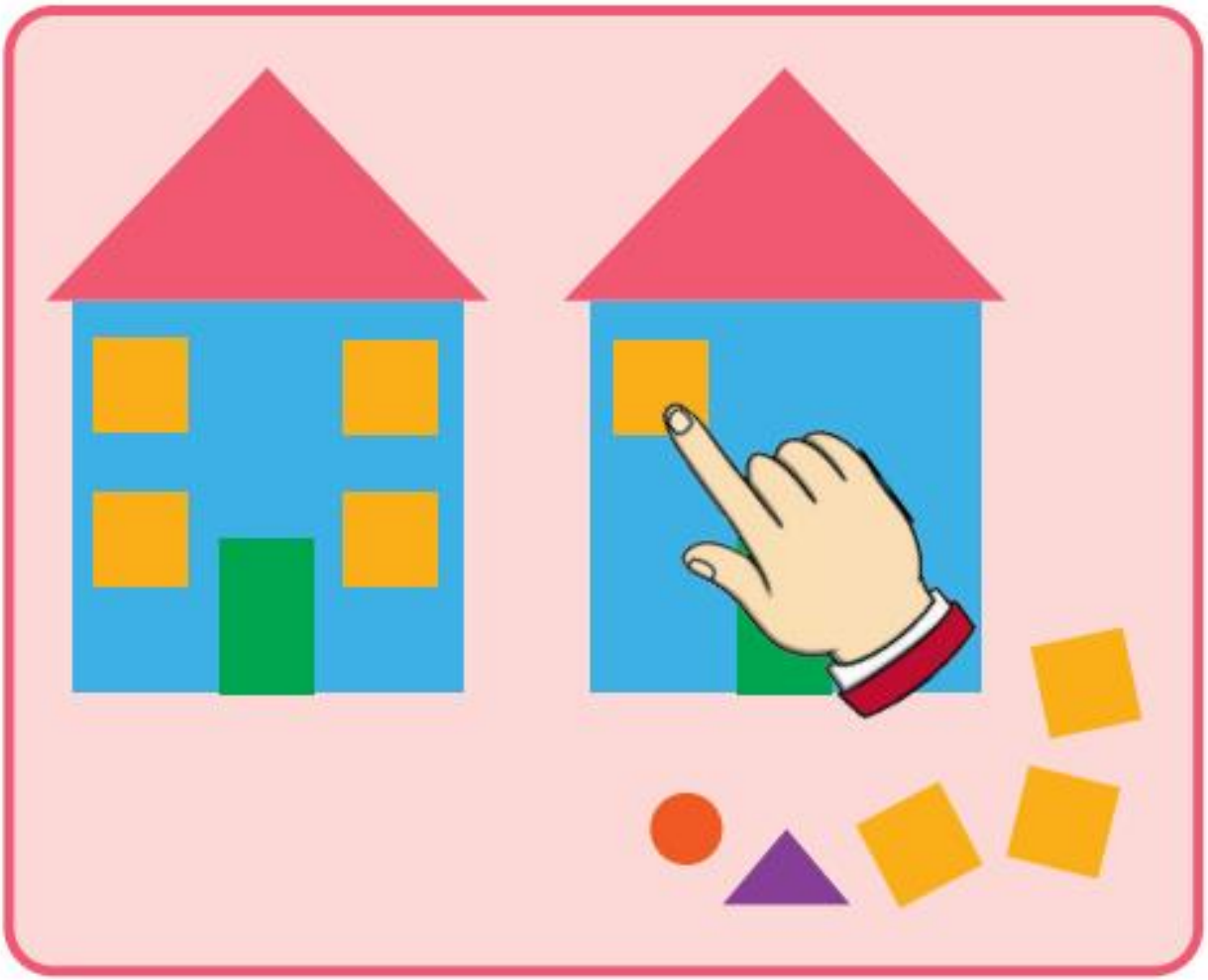
What is the whole?
What are the parts?



What is the whole?
What are the parts?



Shape Pictures



- With a grown-up, cut out some paper shapes.
- Watch carefully as your grown-up makes a picture using the shapes.
- What shapes do you need to use to copy their picture?
- Where should the shapes go?
- Do you need to turn or flip over any of the shapes?
- Can you make a shape picture for a grown-up to copy?

Maths: All about the Number Ten

Home Learning Challenges

10

Hidden around the page are 10 butterflies. Can you find them all? Can you draw a flower for each butterfly? How many flowers did you draw?

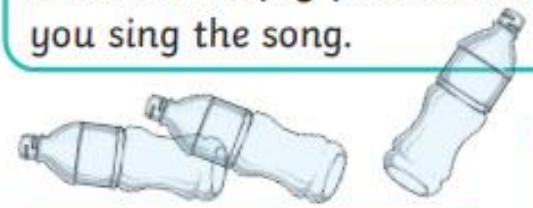
In a 5-aside football match, there were 5 red players and 5 blue players. How many footballers were there altogether? You could draw a picture to help you work out the answer.



Use some empty packaging to make a model rocket. Stand it on the floor and then, start a countdown! Start at 10 and countdown to 0 for blast-off! Then, lift the rocket up ready for an adventure in space!



Do you know the song Ten Green Bottles? Try singing it with a grown-up. You could use some empty plastic bottles to count as you sing the song.



Can you see the number 10 on this page? Can you trace over the numbers at the bottom of the page? You could try writing the number 10 on your own too.

Ask a grown-up to help you draw around both of your hands on a large piece of paper. Can you count your fingers? You could write a number on each finger you have drawn to help you count them. How many fingers (including your thumbs) are on each hand? How many fingers do you have altogether? Try counting your toes too, how many toes do you have?



10 10 10

Can you continue the pattern?



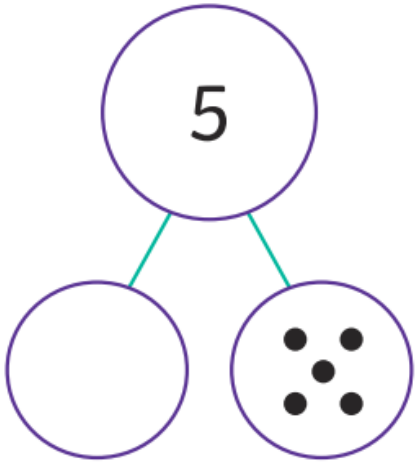


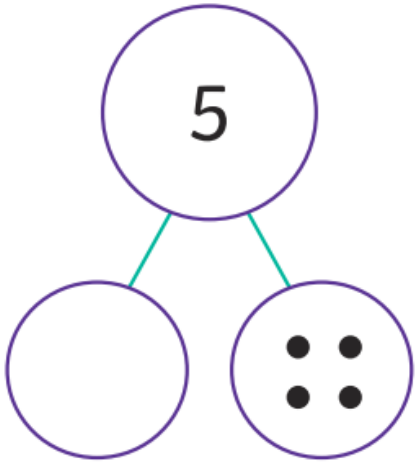


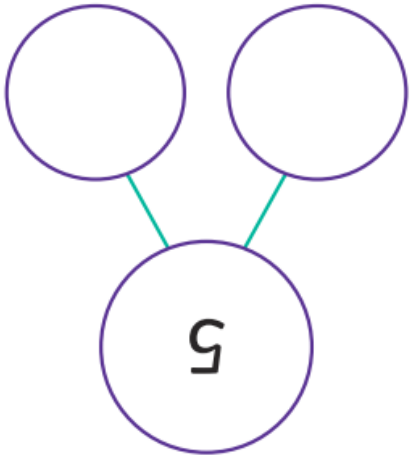


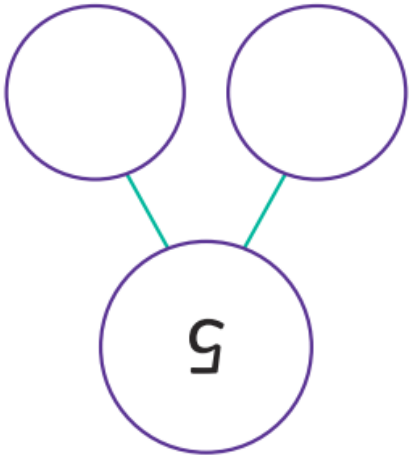


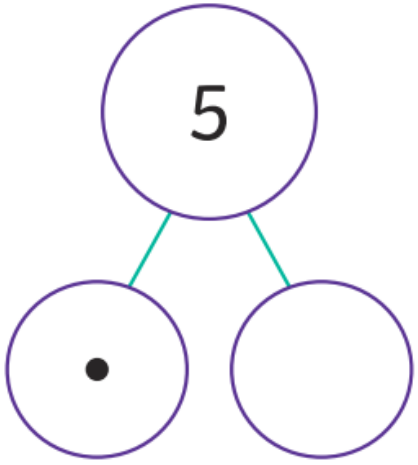
Part-Whole Number Bonds of 5

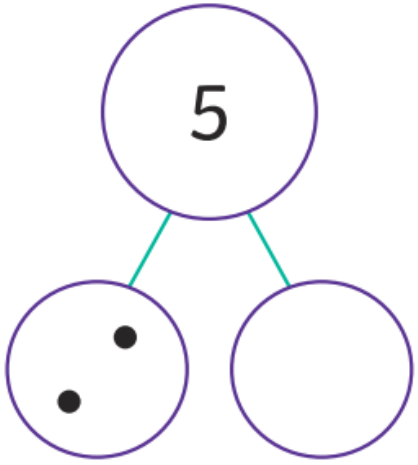


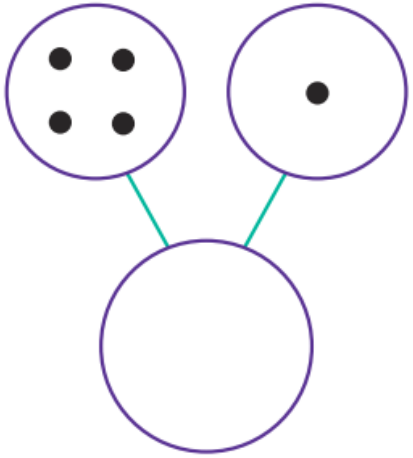


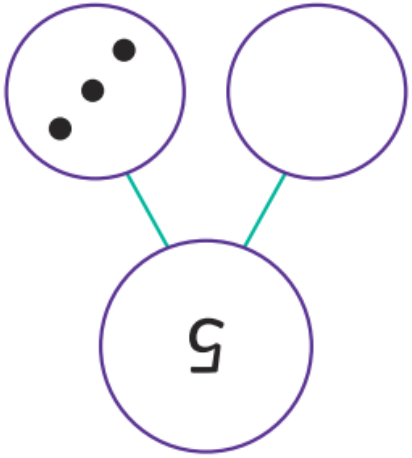












Part-Whole Number Bonds of 5