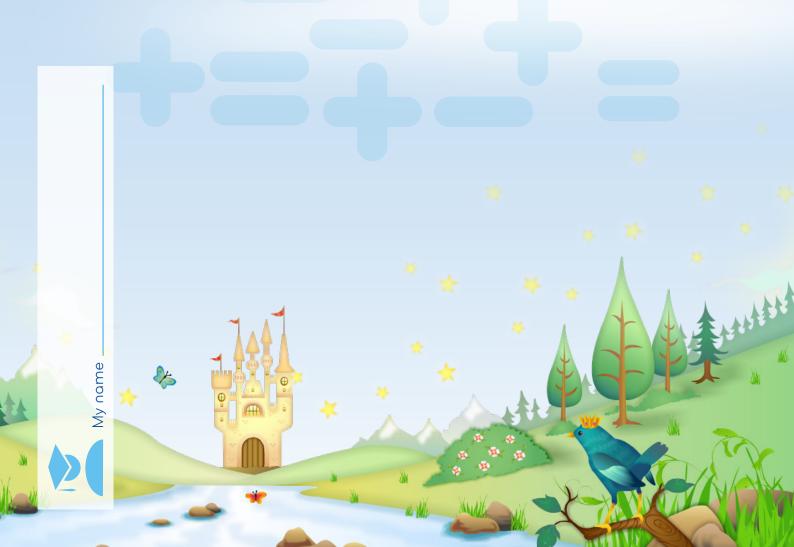




Operations with Number



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Series A – Operations with Number

Contents

Topic 1 - Addition (pp. 1-20)

Date completed

- to 5 _____
- make 5_____
- to 10 _____
- make 10_____
- counting on _____
- introducing the term 'add'
- explore _____

Topic 2 – Subtraction (pp. 21–36)

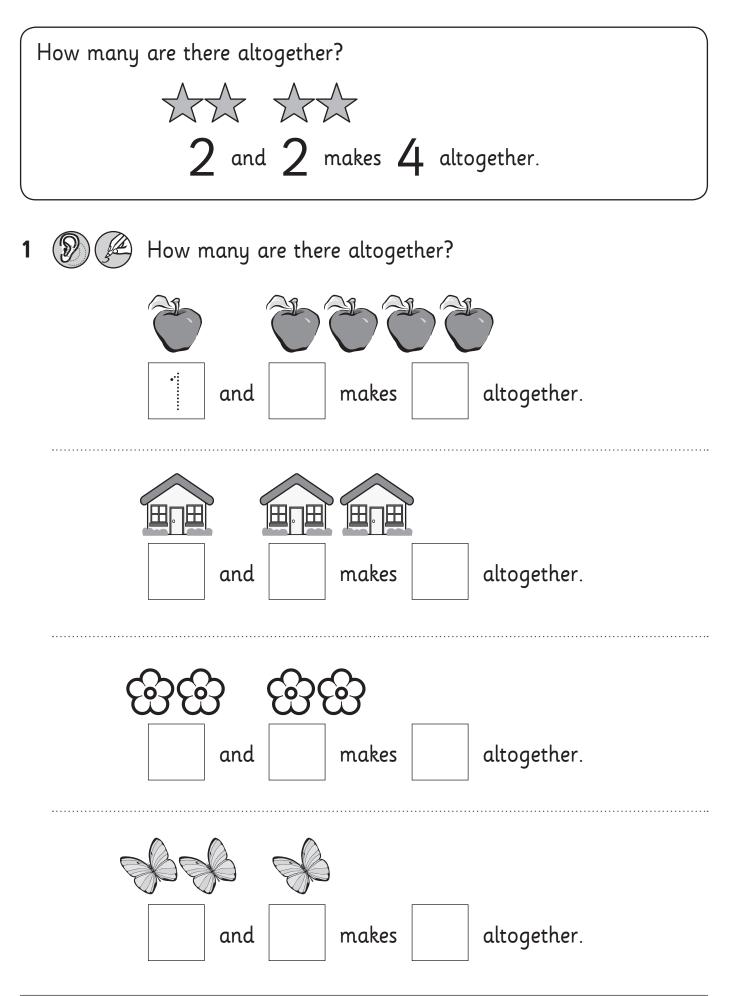
- to 5 _____
- to 10 _____
- explore ______

Topic 3 – Grouping and sharing (pp. 37–44)

- groups ______
- equal groups _____
- sharing_____

Series Author:

Rachel Flenley





flowers

flowers altogether

Draw 3 more



Draw pictures or use counters to solve. Write how many are altogether.

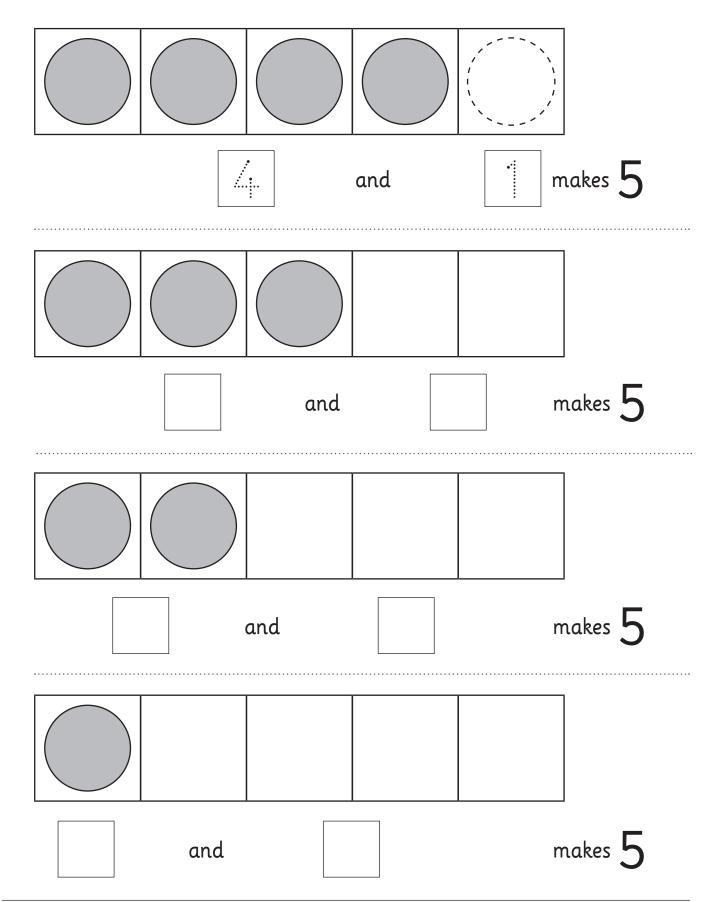
- 2 black pups.
- 2 brown pups.
- 1 spotty pup.

How many pups are there altogether?

Addition - make 5

How many more to make 5?

Place counters in the empty squares to find out.



You will need: partners





chalk

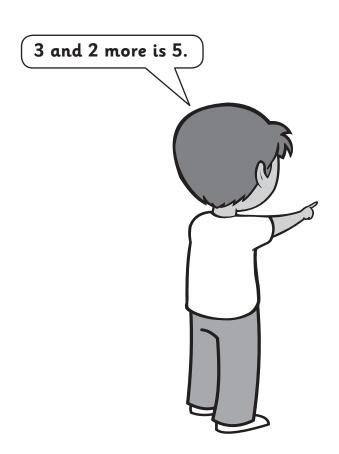
What to do:

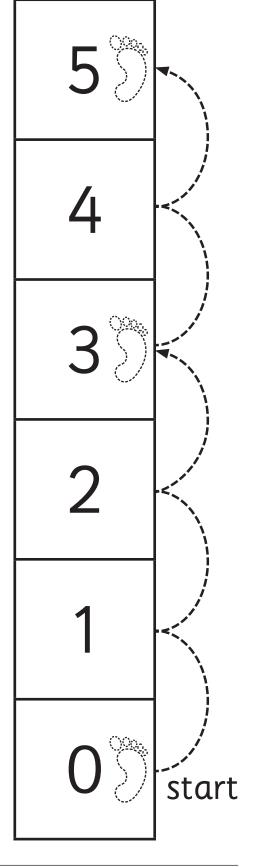
Use chalk to draw 6 number squares on the asphalt that are big enough to stand in.

Stand in O. Your teacher or partners will say a number between 0 and 5. Take that number of steps.

Your job is to find out how many **more** steps to get to 5. Count the steps you take until you are in 5.

Can you say the number fact you have made?





Addition – make 5

You will need:



a partner

Blu-Tack







pencils or water colours





5 popsticks

What to do:

Colour or paint the flowers. Let them dry.

Cut them out and stick them onto the popsticks like this.

Put 1 flower in 1 cup and the rest in the other cup.

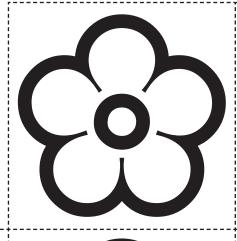
How many flowers are in the other cup?

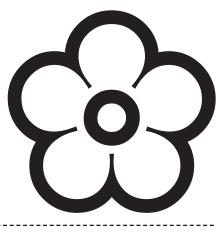
Say the number fact out loud with your partner.

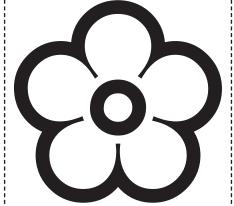
1 flower and 4 flowers makes 5 flowers altogether.

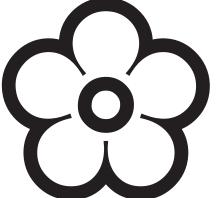
How many different ways can you find to arrange the flowers in the 2 cups? You will always make 5.

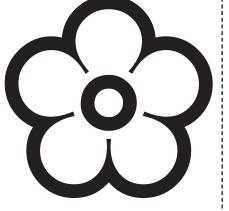
Use the cups on page 7 to record your findings.



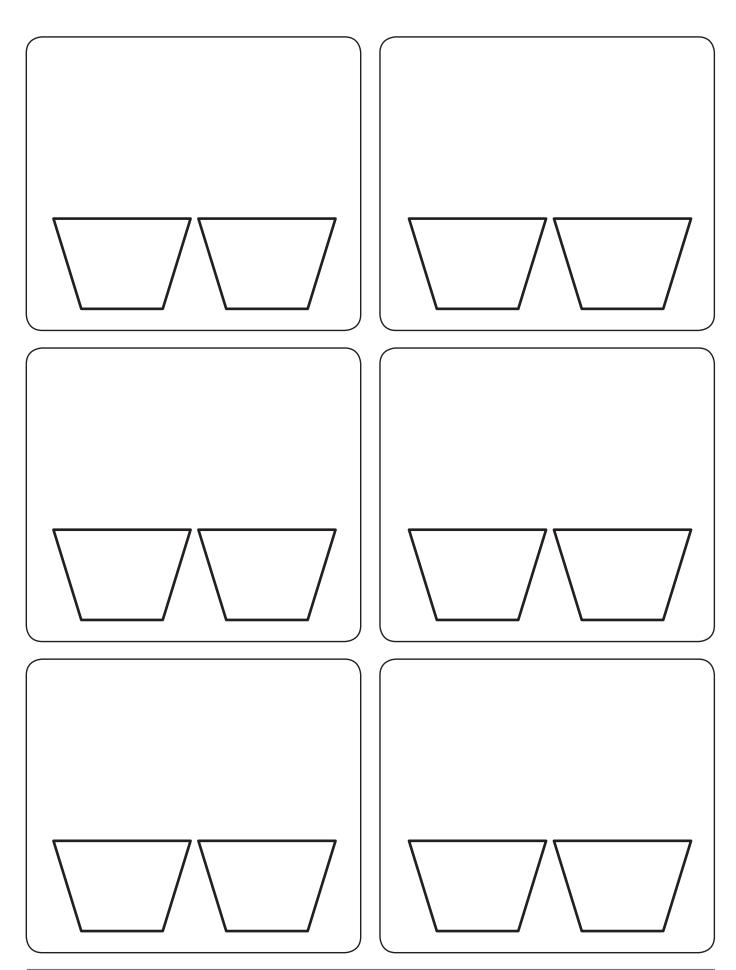








Addition - make 5



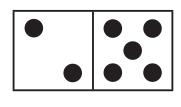
Draw more. How many are there altogether? Draw 2 more people altogether Draw 3 more altogether cats Draw 3 more flowers altogether



How many are there altogether?



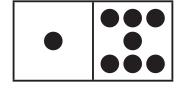
Say the number fact out loud to a partner.



and



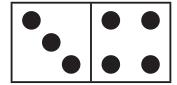
altogether.



and



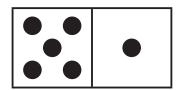
altogether.



and



altogether.



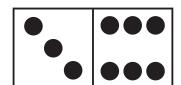
and



is

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1	

altogether.



and



is

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altogether.

Draw your own dots on the domino. Finish the number fact.



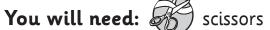
and



is



altogether.







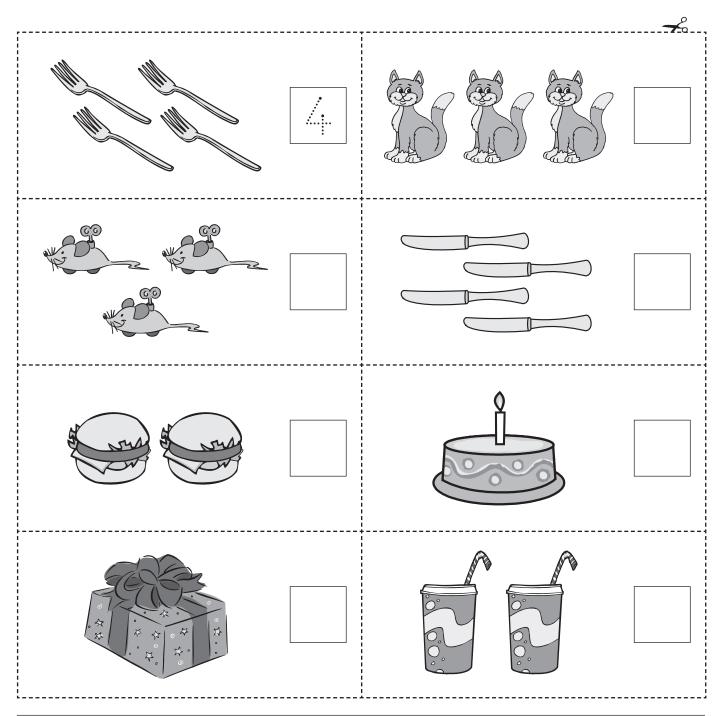
) glue stick



What to do:

Cut out the boxes. Count and write how many are in each box. Find 2 boxes that match each other. How many things altogether? Stick them together in your maths book.

Record or tell someone the number facts you have made.



10

You will need: (a partner scissors







5 blue counters and 5 yellow counters

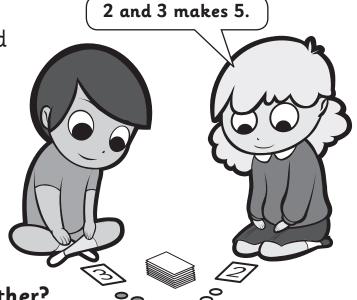


What to do:

Player 1, take the blue counters and Player 2, take the yellow counters. Cut out the numbers below.

Turn them face down and spread them out.

Each player turns over a number and puts out the counters to match it.



How many counters are altogether?

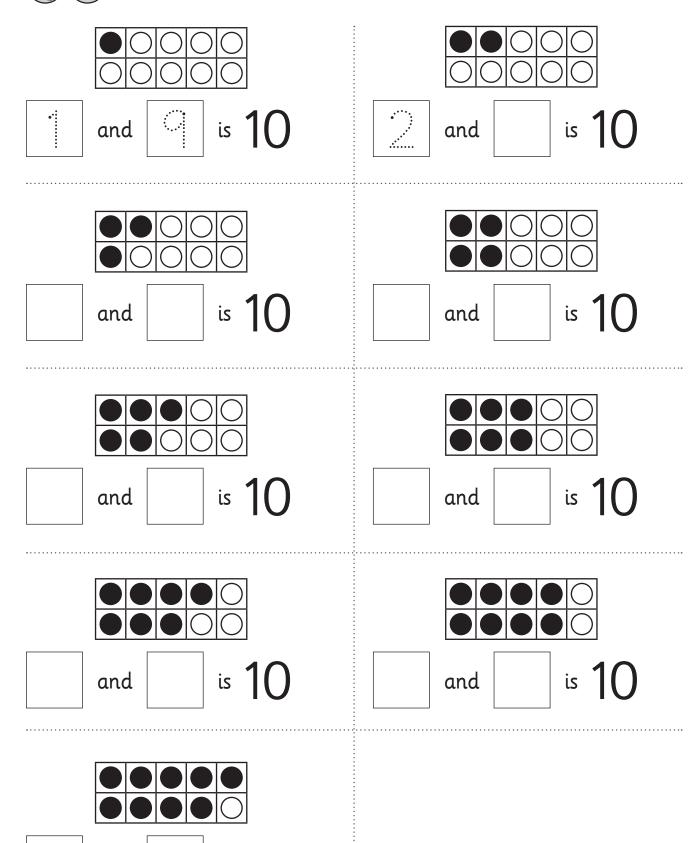
Record your number fact in your maths book.

Put the numbers back. Make 5 different sentences.

1	2	3	4	5
1	2	3	4	5

Addition - make 10

1 Colour more dots to make 10. Finish the number facts.



12

and

Addition – make 10

You will need: scissors





glue stick

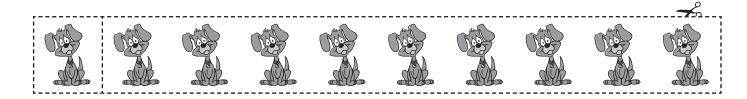


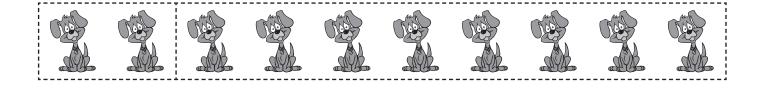
a copy of this page and page 14



What to do:

Cut out the groups on this page and page 14. Mix them up. Find the groups that make 10 when joined together. Stick them in your maths book.



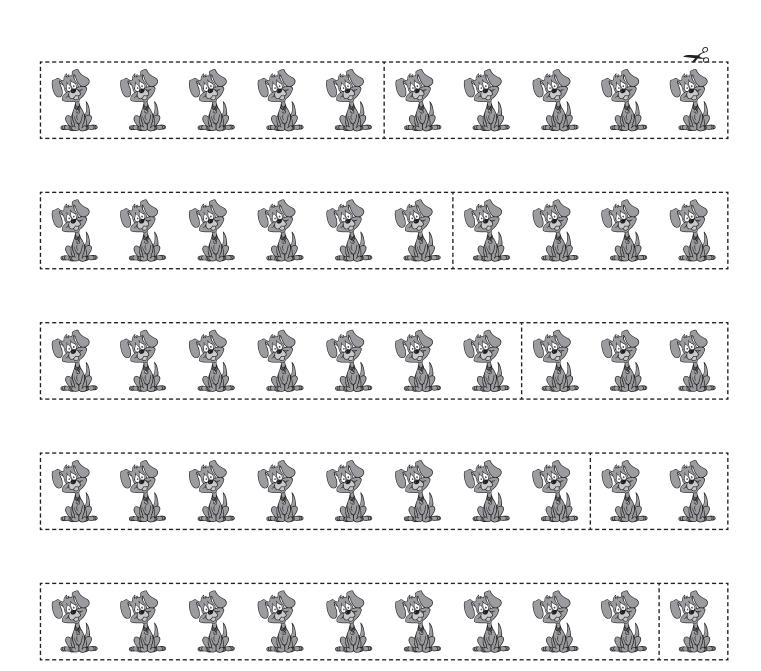




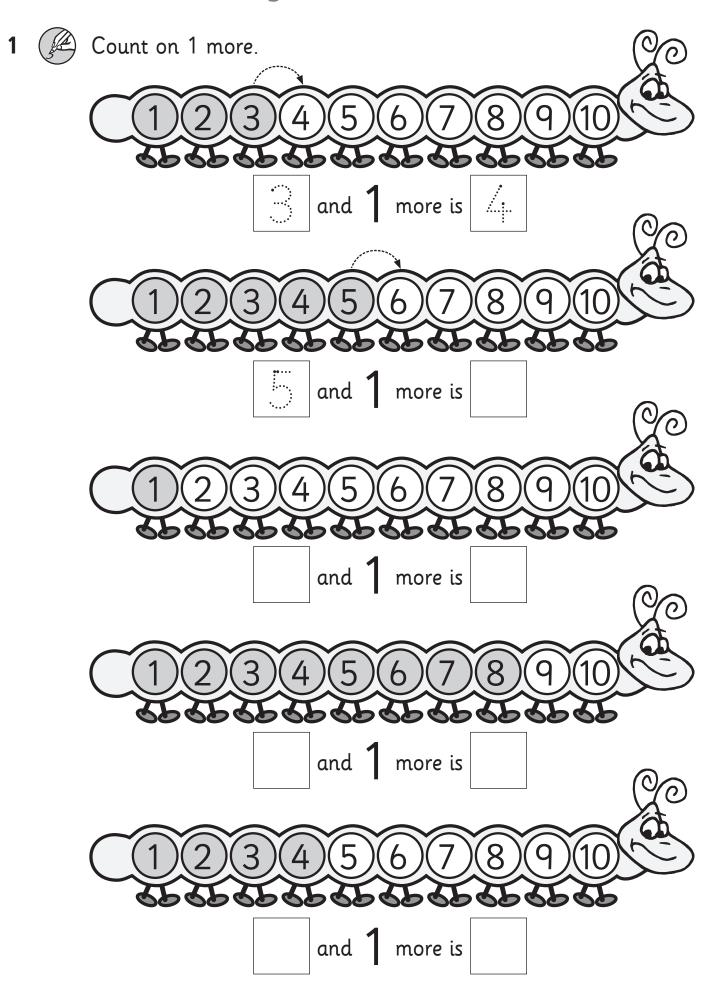


Addition - make 10



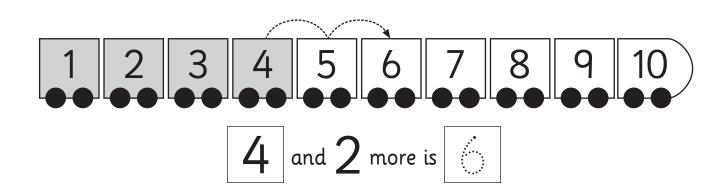


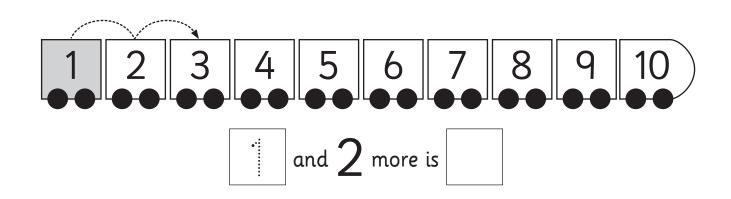
Addition – counting on

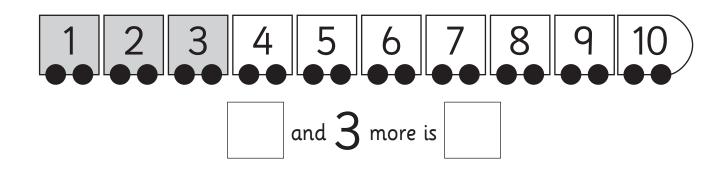


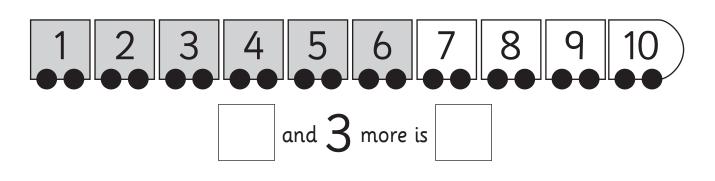
Addition - counting on

1 Count on 2 or 3 more.









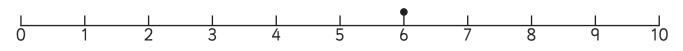
Addition - counting on

We can jump along number lines to help us count on.

What is 3 more than 6? We start at 6 and take 3 jumps.

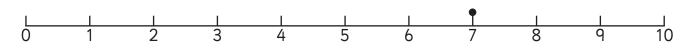


1 Jump along the number lines. Finish the number sentences.

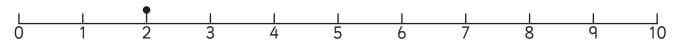


Take 1 jump.



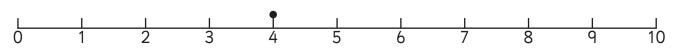


Take **2** jumps.



Take 2 jumps.



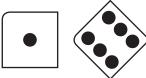


Take 3 jumps.

$$4$$
 and 3 more is

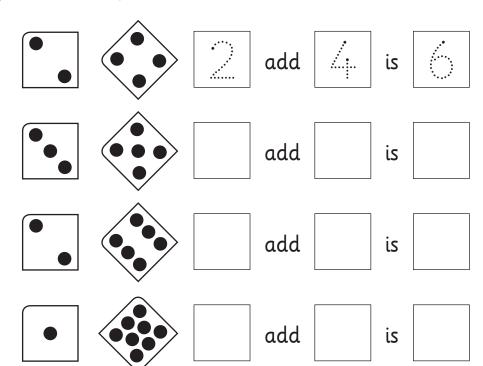
Addition – introducing the term 'add'

When we join 2 groups together, we add them. Another word for this is **plus**.

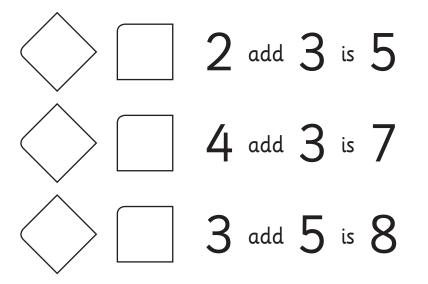


1 add 6 is 7

How many? Add the dots.



Draw dots on the dice to match the number facts.



18

Addition – explore

You will need: (a) a partner





counters

What to do:

Work with your partner.

Use pictures, counters or the number line to solve these problems.

5 kids were on the playground.

4 more kids join them.

How many kids are on the playground now?

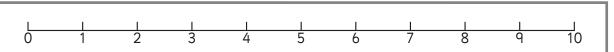
3 cats were on the mat.

4 more cats sit on the mat.

How many cats are on the mat now?







Addition - explore

You will need: (a) a partner







2 bean bags

What to do:

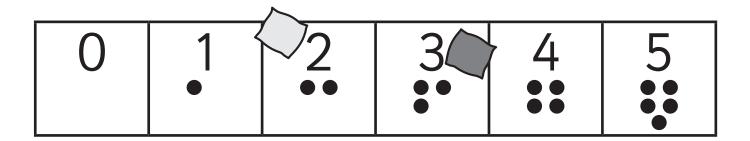
Draw 6 number squares with chalk on the asphalt or carpet.

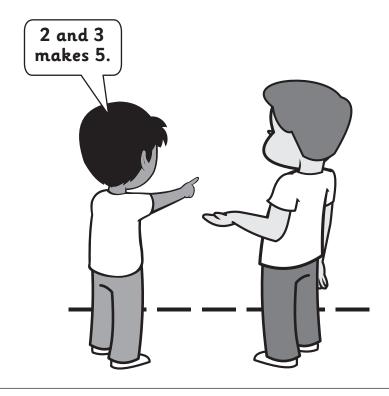
Draw circles in each square to match the number.

Take turns throwing 2 bean bags at the squares. If you miss the squares you can throw again.

Use the circles to help you work out the number fact you have made. Your partner can help you work out the fact.

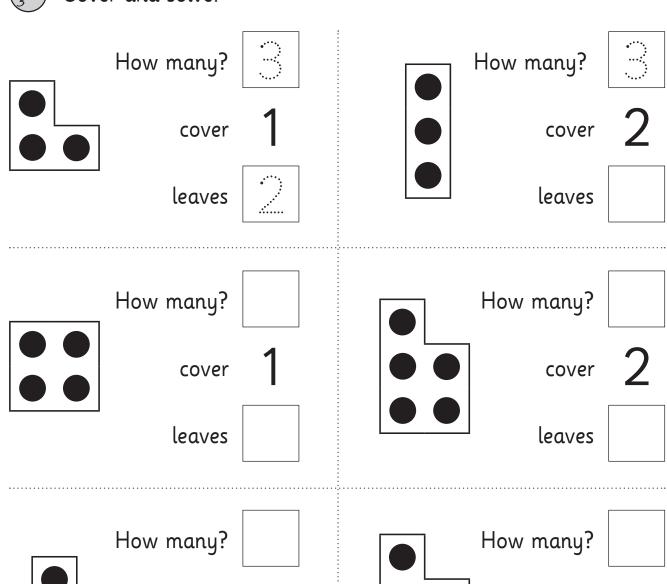
Make 5 number facts each.

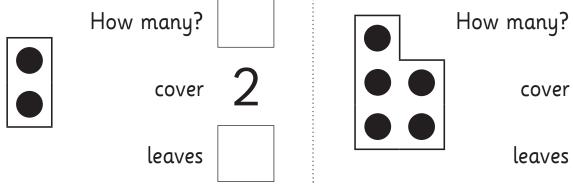


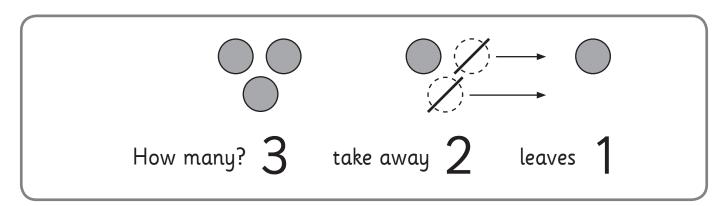




Cover and solve.







You will need: a partner counters

What to do:

Put out and take away counters to find how many are left.

Put out 5 take away 2 leaves

Put out 4 take away 1 leaves

Put out 3 take away 2 leaves

Put out 5 take away 3 leaves

What to do next:

Take turns telling each other to how many counters to put out and take away. Record 4 facts in your maths book.

We can cross off things to show taking away.

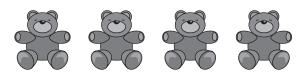
How many? 5 take away 2 leaves 3

Cross off to take away 1 or 2.



How many? 5 take away 1 leaves





How many? | Leaves leaves





How many?



take away leaves





How many?



take away 2

leaves



group activity

You will need: people





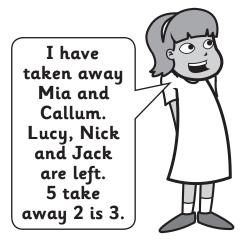


your teacher

What to do:

Sit 5 children on 5 chairs. Your teacher will tell you who to 'take away'. Move these children onto the mat.

Say the number story you have made.

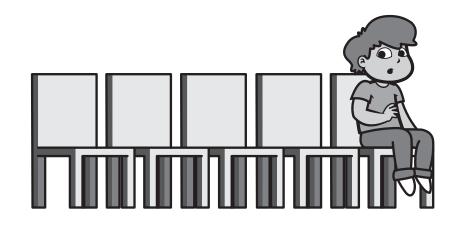


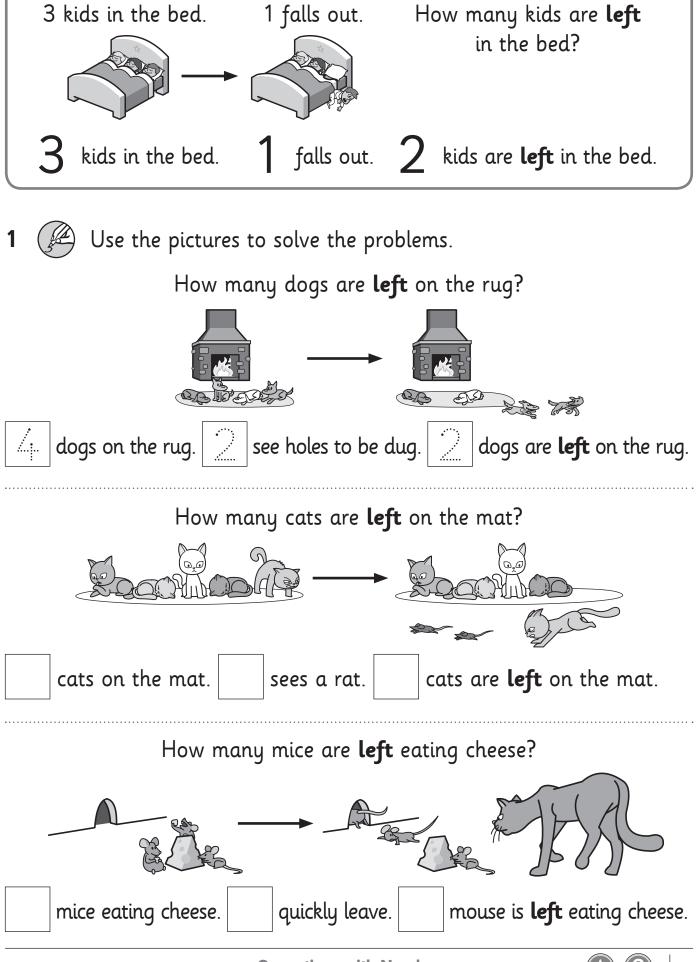


What to do next:

Your teacher will tell 5 children to act out a take away story on the chairs. Can you tell the number story?







You will need: (a) a partner





pencils or paints





5 red counters a copy of page 27 between you

What to do:

Colour the tree on page 27.

Pretend your counters are the apples. Put 5 on the tree.

Each time you solve a problem, put the 5 apples back on the tree again.

5	How many apples?	5	How many apples?
2	Pick	1	Pick
	How many are left?		How many are left?
5	How many apples?	5	How many apples?
4	Pick	3	Pick
	How many are left?		How many are left?
5	How many apples?	5	How many apples?
0	Pick	5	Pick
	How manu are left?		How manu are left?





You will need: a partner counters

What to do:

Draw pictures or use counters to solve these problems.

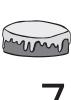
- 5 kids were at the beach.

 2 go home.

 How many kids are left at the beach?
- 4 cakes were on the plate.

 3 are eaten.

 How many cakes are left on the plate?















7 cakes Take away 3 There are 4 cakes left.

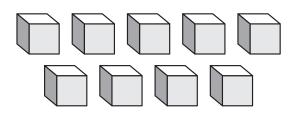
Cross off to take away. Say the number facts out loud.



cars

Take away

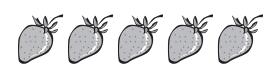
There are cars left.



blocks

Take away 3

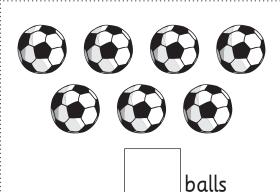
There are blocks left.



strawberries

Take away 2

strawberries left. There are There are



Take away 4

balls left.

You will need: (a partner





10 counters

What to do:

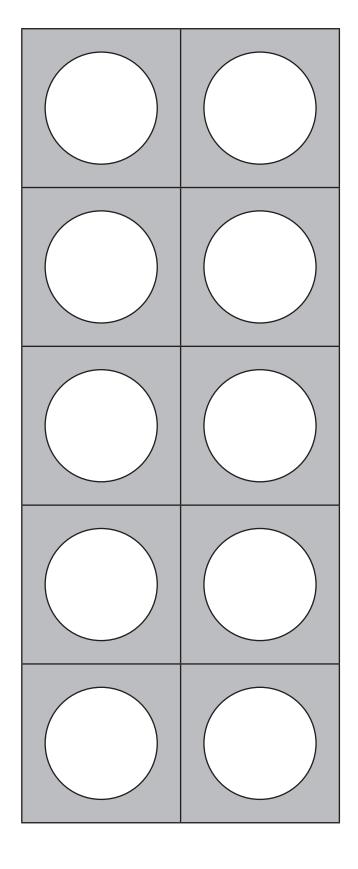
Put 10 counters on the frame.

Take turns taking some counters away. Don't let your partner see you do it!

Can they work out how many counters you took away?

Say or record the number fact together like this:

10 take away ... is ...









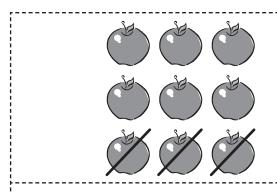
scissors



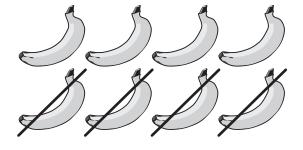
What to do:

How many are left?

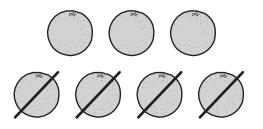
Cut out the take away pictures and number facts. Mix them up and then match the pictures with the number facts.



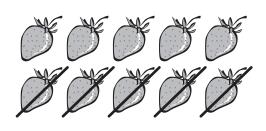
8 take away 4 is 4



9 take away 3 is 6



10 take away 5 is 5



7 take away 4 is 3

You will need: partners (1) a ball counters









10 skittles or 1.25L bottles with sand in the bottom

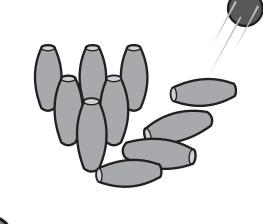
What to do:

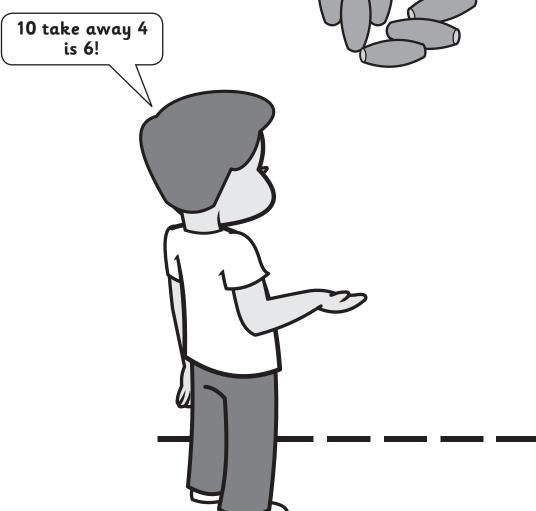
Set up your skittles like this . How many skittles do you have? Take turns bowling.

How many do you knock down each time?

Say the number fact you make.

A partner will give you a counter for every fact you get right.

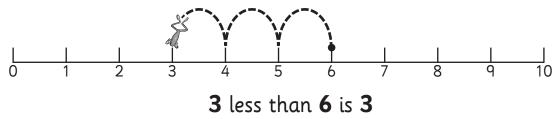




Subtraction - counting back

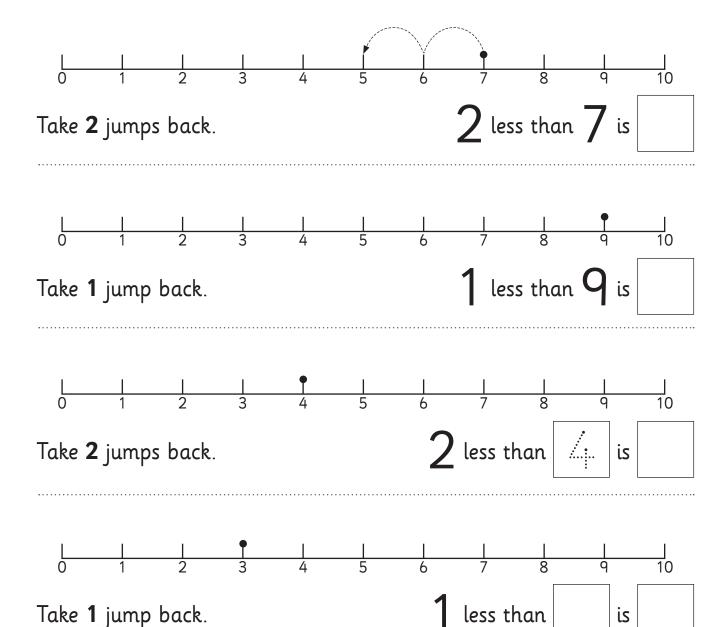
We can jump along number lines to help us count back.

What is 3 less than 6? We start at **6** and take **3** jumps back.



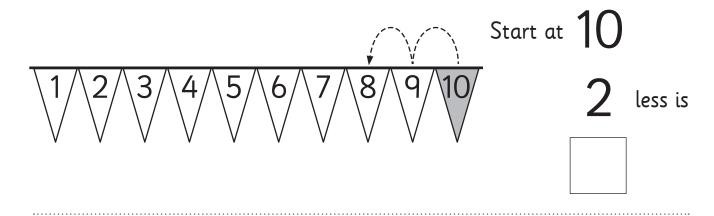
1 Dump back along the number lines.

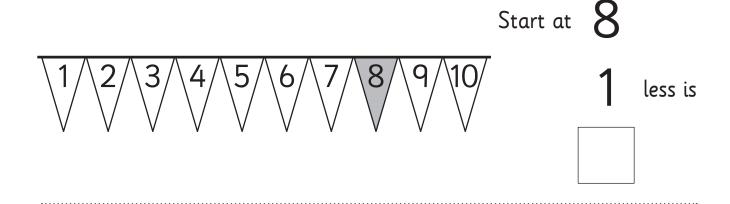
Finish the number facts and say them out loud.

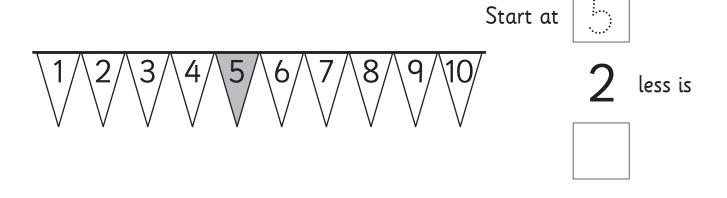


Subtraction - counting back

1 Count back.







Start at $\frac{1}{2\sqrt{3}\sqrt{4}\sqrt{5}\sqrt{6}\sqrt{7}\sqrt{8}\sqrt{9}\sqrt{10}}$ less is

Subtraction — explore

You will need: (a partner





counters

What to do:

Work with your partner.

Use pictures, counters or the number line to help solve these problems.

7 puppies are playing in the park.

5 go home to chew a bone.

How many puppies are left in the park?



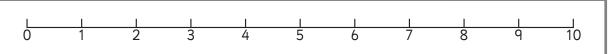
10 balloons are tied to a chair.

3 escape to float in the air.

How many balloons are left on the chair?







Subtraction – explore

You will need:



a partner



counters

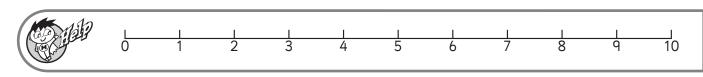


What to do:

Cut out the number cards. Spread them out face down.

Take turns turning over 2 cards. Take away the smaller number from the bigger number. You can use counters, pictures or the number line to help.

, 8	сору
1	2
3	4
5	6
7	8
9	10



Grouping and sharing – groups

You will need: (a partner





scissors



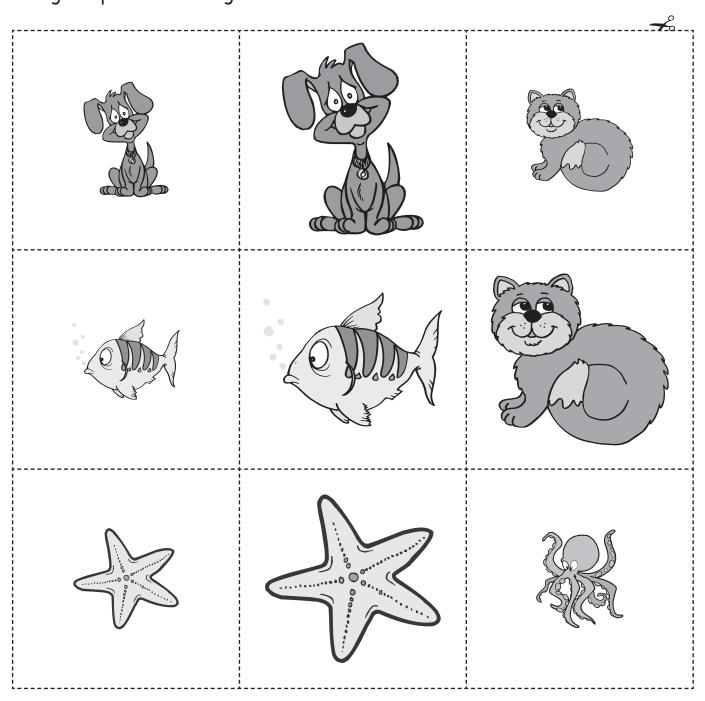
What to do:

Cut out the animals below and sort them into groups.

Tell your partner how you sorted them.

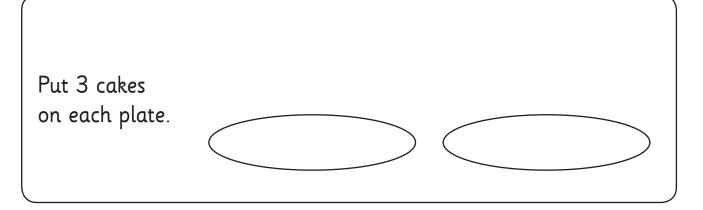
Now sort them another way into different groups.

Tell your partner how you sorted them.



Grouping and sharing – groups

1 Praw groups.



Put 2 flowers in each vase.



Give the monkey 4 bananas.



Give each dog 1 bone.



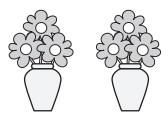




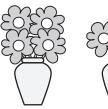
Grouping and sharing – equal groups

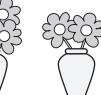
Are these groups **the** same or equal?

Yes. There are 3 flowers in each group.



Are these groups the same or equal? No. 1 group has 4 flowers. The other group has only 2 flowers. They are **not the same**.





-) the groups that are **the same**.
 - the groups that are **not the same**.

















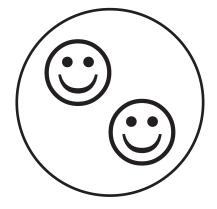




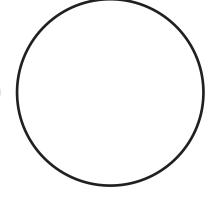




Draw another group that is the same.







Grouping and sharing – equal groups

We can arrange our groups into rows.



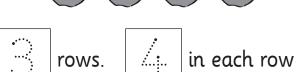
2 rows. There are 5 in each row

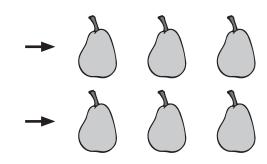
How many rows? How many in each row?



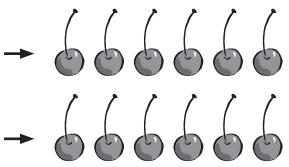


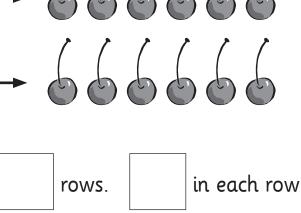


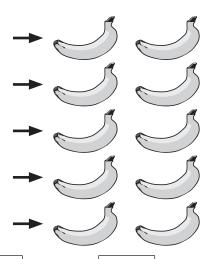












Grouping and sharing — equal groups

You will need: (a partner





counters or blocks

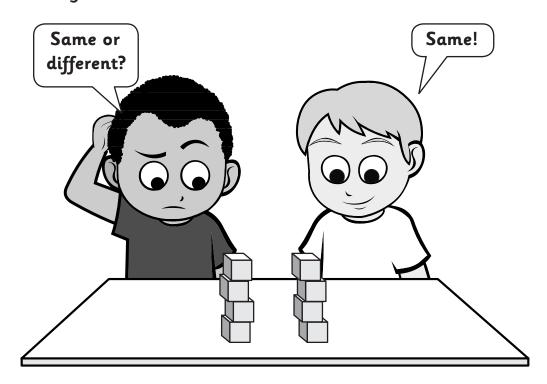
What to do:

Take turns putting some counters into groups or rows. Sometimes make the groups the same and sometimes make them different.

Ask your partner, 'Same or different?'

If they answer correctly, give them a big tick.

Can you both get 5 ticks?



What to do next:

Ask your teacher to play 'Huddles' with your class. They will call out a number and you have to form a group with that number of people. When your group has the right number, sit down.

If you don't end up in a group, don't worry — there is always next time!

Grouping and sharing - sharing

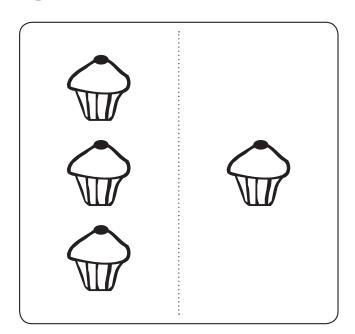
When every group contains the same amount, we say the shares are fair. Are these shares fair?

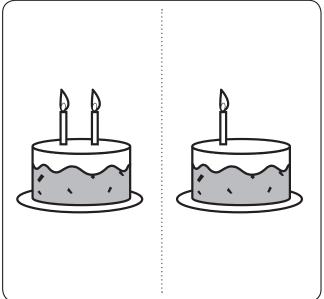


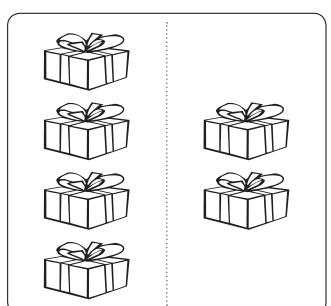


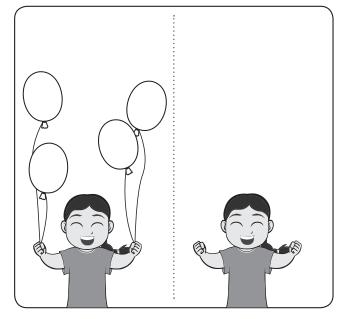
Yes, each bag has 5 lollies. The shares are fair.

Draw more to make the shares fair.









Grouping and sharing - sharing

You will need: (a) a partner







(glue stick



What to do:

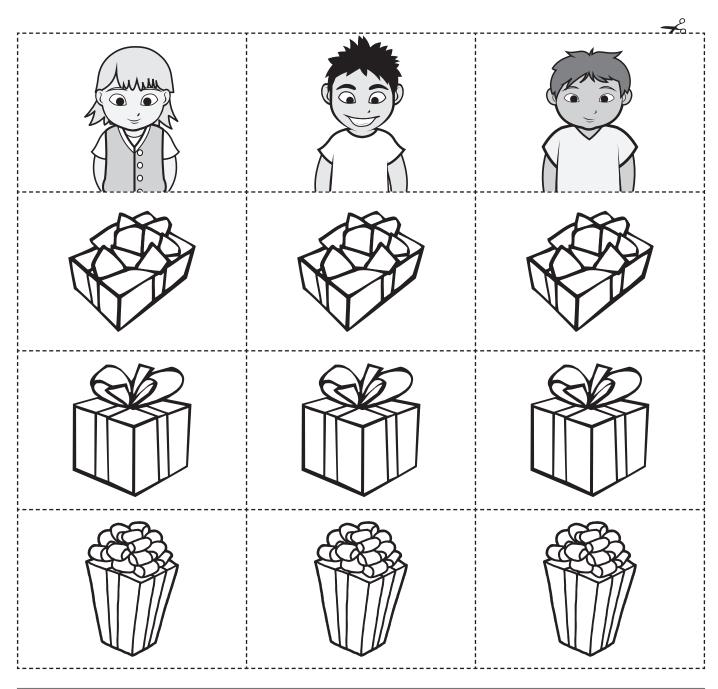
Colour and cut out the presents and kids.

Give each kid a share of the presents. Make the shares not fair.

Show your partner. Do they agree that the shares are not fair?

Now make the shares fair. Does your partner agree?

Glue the kids with their fair share of presents in your maths book.



Grouping and sharing - sharing

You will need:	You	will	need:	
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a partner



counters

What to do:

Work with your partner.

Use pictures or counters help solve these problems.

There are **3** girls.

They each read 3 books.

How many books did they read altogether?



There are 4 cousins.

There are 8 toy cars.

Give each cousin a fair share of the cars.

How many cars does each cousin have?

