# Maths for year 1 to 2



- -Number bonds to 10
- -Using number bonds to 10 work out number bonds to 20
- -Know number bonds to 100 and beyond
- -Use number facts to help with addition and subtraction

Learn number bonds to 10 by heart.

#### Egs of activities

Find a group of 10 objects (this works better if you use just 2 colours) Some suggestions of things that you can use -pegs, Lego pieces, gems, pencils.

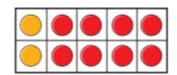
How many different ways can you split them into 2 groups.

0+10 1+9 2+8 3+7 4+6 etc

Children can record this in various ways. Draw pictures of their sets, write the number sentences.

Ask children at random times if they can tell you 2 numbers that make 10.

ĺ	Match	the	ten	frames	to	the	number	sentences
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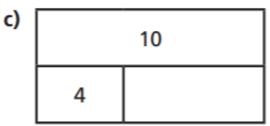
$$3 + 7 = 10$$



## Complete the bar models.

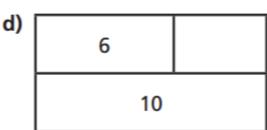
a)

	10
2	



b)

10	
9	



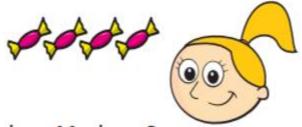
10 children can sit at this table.



How many more children can sit down?

Eva and Mo have 10 sweets between them.

Eva has 4 sweets.



How many sweets does Mo have?

Take 10 cubes.

Give some to your friend.

How many cubes could you each have?

(	_	)	

$$0 + 2$$

#### 2 Are these number sentences true or false?

Match the number bonds that are equal.

$$2 + 4 = 3 + 3$$

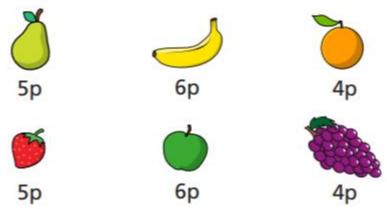
$$5 + 3 < 2 + 7$$

$$6 + 1 > 3 + 7$$

# Write <, > or = to make the statements correct.

d) 
$$3 + 0$$
 0 + 3

4 Here is some fruit.



Eva buys an apple and some grapes.

How much does Eva spend?

Teddy buys a pear and an orange.

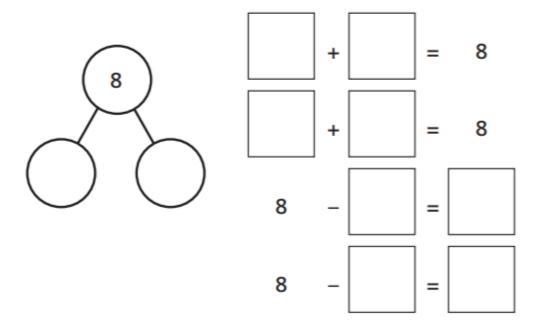
How much does Teddy spend?

Who spends the most money?

Look at the picture.



Complete the part-whole model and the fact family.



Can you write each number sentence a different way?



Look at the picture.



Complete a part-whole model and a fact family.

Which of your number sentences shows the number of apples?

Can you write each number sentence a different way?

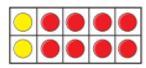
Some T-shirts have spots and some do not.

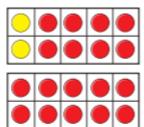


Complete a fact family.

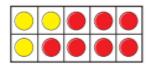
Write additions to match the ten frames.

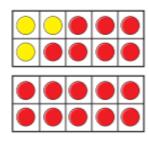
a)





b)





c) What do you notice?



# Number bonds to 20

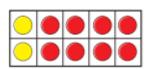
10+10 11+9 12+8

etc

- -Using sets of objects (as suggested in previous number binds to 10 slide) Ask children to make bonds to 10.
- -Check that they understand that there are 10 altogether.
- If we have 10 how many more do we need to make 20?
- Make a separate set of 10 and add to the number bonds they have made. How many do we have now? (20)
- Repeat with different number bonds to 10
- You can use something e.g a stick or pencil. This can represent 10. Add the stick/pencil to the number bonds to 10 to make 20.
- Practise drawing, writing out and quizzing children on number bonds to 20

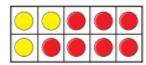
	Write	additions	to	match	the	ten	frames.

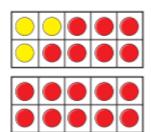
a)

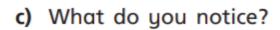




b)







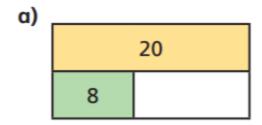


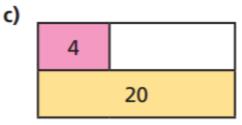
# Complete the number bonds.

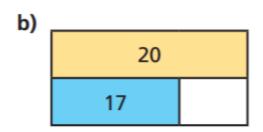
a) 
$$4 + 6$$

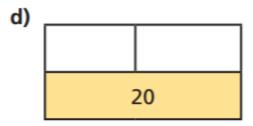
$$5 + 15$$

Complete the bar models.









## Colour all the number bonds to 20

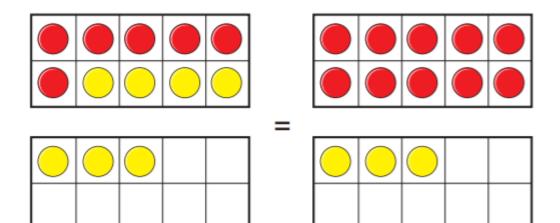


14 + 3	17 + 3	2 + 18	0 + 20	3 + 16	9 + 11	17 + 3	18 + 2	2 + 0
18 + 1	3 + 7	12 + 7	5 + 15	4 + 8	1 + 19	13 + 5	20 + 0	1 + 15
11 + 8	11 + 9	19 + 1	3 + 17	10 + 0	13 + 7	16 + 2	8 + 12	5 + 5
5 + 6	4 + 16	19 + 0	10 + 1	2 + 0	14 + 6	17 + 1	11 + 9	11 + 8
12 + 5	12 + 8	18 + 2	15 + 5	4 + 15	16 + 4	10 + 10	15 + 5	13 + 3

Make your own puzzle like this.



The ten frames show that 6 + 7 is the same as 10 + 3



Use counters to show that 5 + 6 is the same as 10 + 1

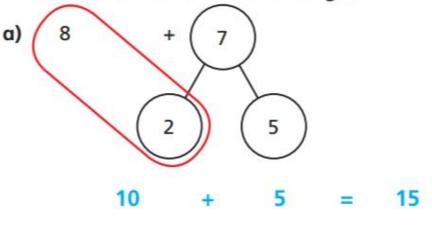


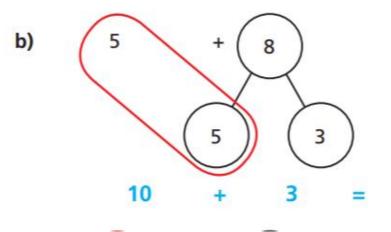
Complete the additions.

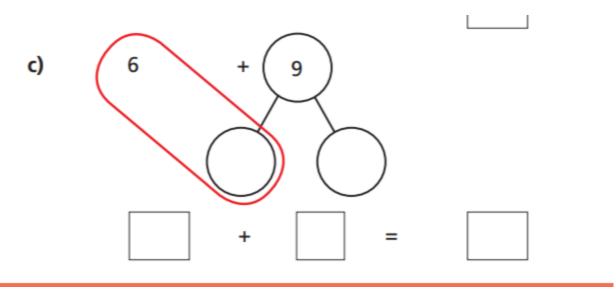
Use ten frames to help you.

Use number bonds to complete the additions.

The first one has been done for you.

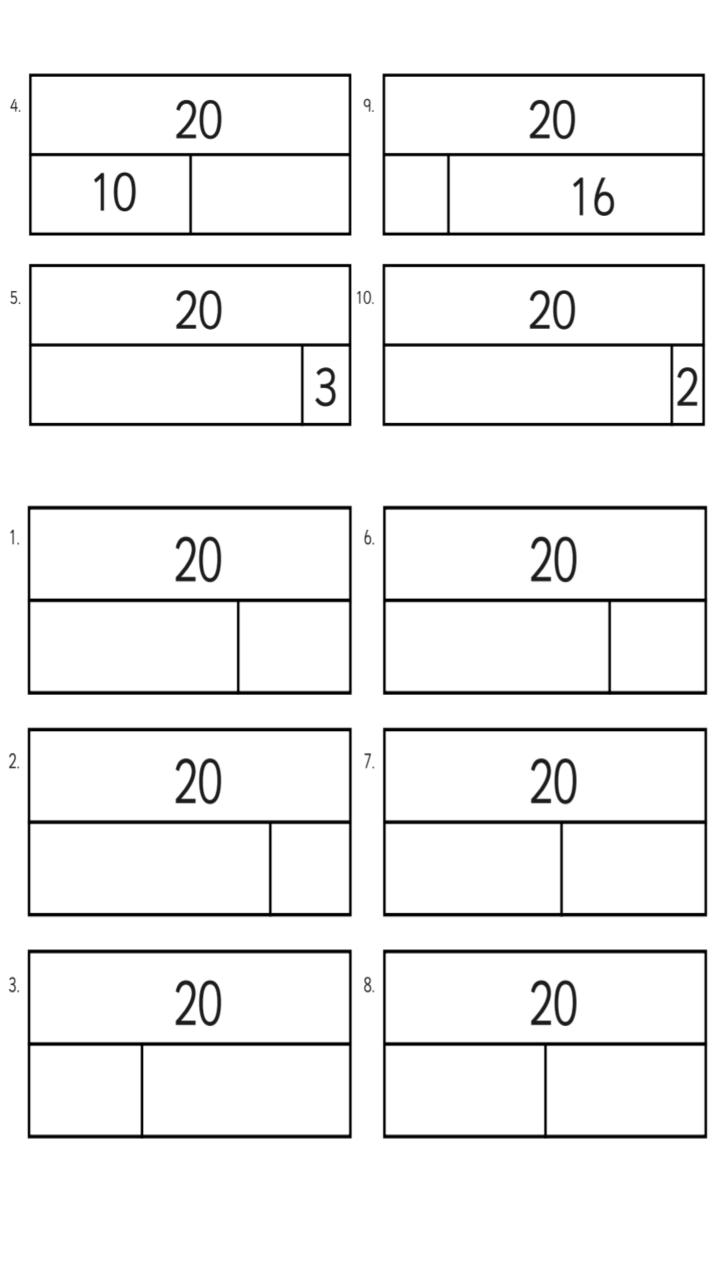






Use known number facts to fill in the missing numbers on these bar models.

1.	20			2	0	
		8				6
2.	20		7.	20		
	15			11		
3.	20		8.	20		



# Number bonds to 100

If children are confident with bonds to 10 and 20 they can use this information to help them with bonds to 100

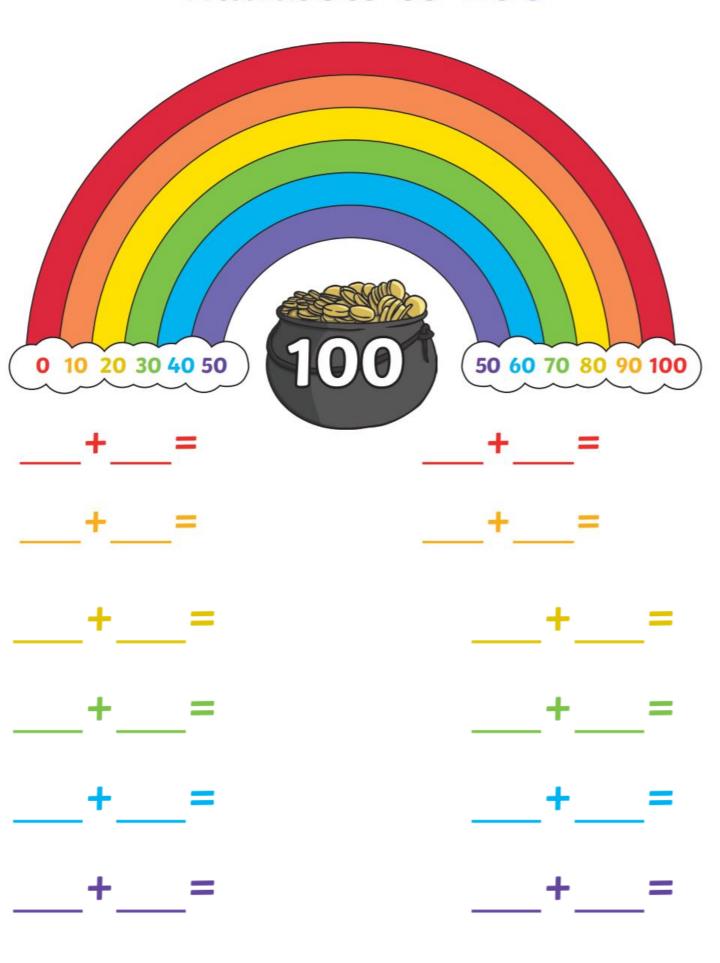
$$1+9=10$$

How many more 10's to get to 100 (90)

Rpt a few times and see if they can see the pattern.

Use objetcs, pictures, etc to help show them the bonds

# Rainbow to 100



a) What calculation is represented?

b) What calculation is represented?

10	10	10	10	10
10	10	10	10	10

- c) What is the same about part a) and part b)? What is different?
- 2 a) Write six different number bonds to 10 Compare answers with a partner to make sure you have them all.
  - b) Write six different number bonds to 100 Use your answer to part a) and related facts to help you.
  - Fill in the missing digits.

$$80 = _0 + 3_$$

$$90 = _0 + 7_$$

Continue the pattern.

$$100 = 100 - 0$$

$$90 = 100 - 10$$

Can you continue this pattern?

Talk to a partner.

Write a similar pattern starting with 50 = 50 - 0How many other patterns can you find that

start with different numbers?