

Year 2 - Maths - Week 4 - Addition and Subtraction



If you have any questions about the work or you would like to send photographs of your work please email them to: year2@stjosephs.greenwich.sch.uk

	Day 1 Activity	Day 2 Activity	Day 3 Activity	Day 4 Activity	Day 5 Activity
10 minutes			Practice on Times Table Rock Stars for 10 minutes a day		
Mathematical talk	How can you partition a number and use your number bonds to 10 to help you? 1 + 9 = 10 1+9 = 20				
Themes	Fact families	Fact families	Compare number sentences	Related Facts	Maths challenge - Symmetry in maths
Mental Maths Varied fluency	True or false. Are the calculations equal? 2+ 18 = 20 18 + 2 - 20	True or false? You can check an answer to an addition calculation by doing a subtraction.	True or false? $12 + 5 < 12 + \square$ 	True or false? 2 + 7 = 9 20 + 70 = 99	Which shapes have a vertical line of symmetry
Problem/activity of the day	Complete calculations. See below. You use pasta or coins to help count and add. Hint: count carefully moving one object at a time. Or you could draw a number line and count on.	Complete the additions and subtractions below. Use number bonds to 10 to help you work out the answers. Watch this clip to help if you can: https://vimeo.com/413876516	Compare numbers using symbols: greater than / less than / equals to: e.g. 8 is greater than 3 / 5 is equal to 5 / 3 is less than 8. Watch this clip to help if you can: https://vimeo.com/413497019	Use number bond facts to ten to work related calculations. e.g. 2 + 3 = 5 20 + 30 = 50 Base 10: draw a rod to represent 10 (4 rods = 40). Watch this clip to help if you can: https://vimeo.com/413568461	Make a symmetrical butterfly - both sides of the butterfly have to be exactly the same. Below is a recipe for making your own butterfly tortilla recipe.
You will need:	Paper, pencil, counters or coins	Paper, pencil, counters or coins	Paper, pencil, counters or coins	Paper, pencil, counters or coins	Tortilla wrap, cheese, tomato paste and toppings.

Day 1

True or False?

$8 + 12$ is equal to $2 + 18$

I think that...

Choose 2 numbers to add together. Write the fact family for this calculation. E.g.

$5 + 2 =$

$2 + 5 =$

$? - 5 = 2$

$? - 2 = 5$

Here are some number cards.

5

2

7

13

6

Choose two number cards and find their total.


$\square + \square = \square$


Write the fact family for this calculation.


Fact families – addition and subtraction bonds to 20



1 What calculations are represented?
The first one has been done for you.

a)  $15 + 5 = 20$

b) 
 $\square + \square = \square$

c) 
 $\square + \square = \square$

d) How many other number bonds to 20 can you make using counters and ten frames?



2 Complete the fact family.

a) $15 + 2 = 17$

$17 = 15 + 2$

$2 + 15 = \square$

$\square = \square + \square$

$17 - 15 = \square$

$\square = \square - \square$

$\square - \square = \square$

$\square = \square - \square$

b)



$2 - 17 = 15$ should be in the fact family.

Explain why Rosie is wrong.

Compare number sentences

1 Mo has 4 blue sweets and 3 pink sweets.



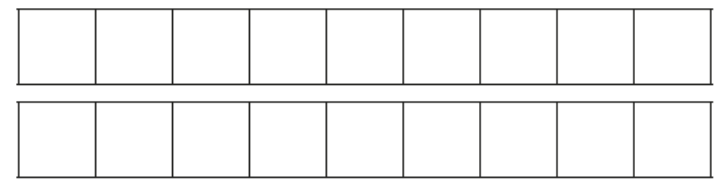
Rosie has 4 blue sweets and 5 pink sweets.



Who has more sweets? _____

Explain how you know.

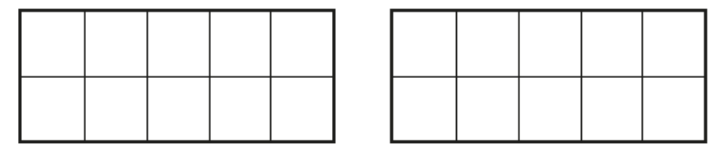
2 Colour the bar models to show that $3 + 6 = 8 + 1$



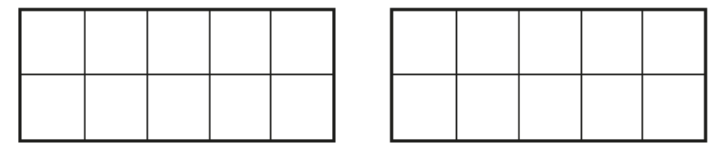
Write one more calculation that gives the same answer.



3 Draw counters to show $9 + 3$



Draw counters to show $9 + 4$



Write $<$, $>$ or $=$ to make the statement correct.

$9 + 3$ ○ $9 + 4$

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

a) $3 + 5$ ○ $3 + 9$

b) $7 + 2$ ○ $4 + 2$

c) $10 + 5$ ○ $9 + 6$

Related facts

White
Rose
Maths

- 1 Use base 10 to show that $3 + 5 = 8$ and $30 + 50 = 80$

Draw your answer.

What is the same about your models?
What is different?

- 2 a) Eva has 2 red pens and 3 blue pens.



How many pens does Eva have?

- b) Tommy has 20 red pens and 30 blue pens.



How many pens does Tommy have?

- 3 Fill in the missing numbers in the related facts.

a) $1 + 2 = 3$

$10 + 20 =$

b) $7 + 2 = 9$

$70 + 20 =$

c) $4 + 6 =$

+ 60 = 100

Butterfly Pizzas

Have a go at these delicious, easy-to-make, Butterfly Pizzas! Share your photos with us using [#MathsEveryoneCanAtHome](#)

Maths Aims:

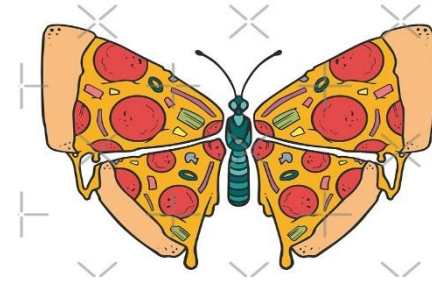
- To create a symmetrical pattern on the Butterfly's wings.
- To cut foods into halves.

Ingredients:

- Tortilla Wrap
- Cheese
- Tomato Passata
- Range of Toppings

What we need to do:

- Fold the tortilla wrap in half. Get an adult to help you with this part and carefully cut the shape of a butterfly's wing in the folded tortilla wrap.
- Unfold and you should have 2 beautifully shaped and symmetrical Butterfly wings.
- Spoon on some passata and spread using the back of the spoon. Spread it all over and near to the edges, leaving a small crust.
- Grate the cheese and count the handfuls as you add it to your Butterfly pizza!
- Carefully cut and slice your toppings to decorate. Try cutting some of the whole pieces into two equal parts to create 2 halves. This will help with your symmetry.
- Add the toppings to the butterfly wings and place the ingredients in the same place on both sides to create some mirrored symmetry.
- Cook you beautiful Butterfly Pizza for 10 minutes at 180C. Enjoy!



Answers true or false?

Day 1	True. $8+12$ is equal to 20 and $2+18$ is equal to 20. In both number sentences there are 2 ones, 8 ones and 1 ten.
Day 2	True. For example: $14 + 6 = 20$ $20 - 6 = 14$
Day 3	True. The number sentence says $12 + 5$ is less than $12 + ?$ So the missing number must be greater than 5
Day 4	False. $2 + 7 = 9$ $20 + 70 = 90$
Day 5	Lines of vertical symmetry: a, b and c.

Fact families – addition and subtraction bonds to 20

1 What calculations are represented?
The first one has been done for you.

a) $15 + 5 = 20$

b) $12 + 8 = 20$

c) $7 + 13 = 20$

d) How many other number bonds to 20 can you make using counters and ten frames?
Various answers

2 Complete the fact family.

a) $15 + 2 = 17$
 $17 = 15 + 2$
 $2 + 15 = 17$
 $17 = 2 + 15$
 $17 - 15 = 2$
 $2 = 17 - 15$
 $17 - 2 = 15$
 $15 = 17 - 2$

b) $2 - 17 = 15$ should be in the fact family.
Explain why Rosie is wrong.

Compare number sentences

1 Mo has 4 blue sweets and 3 pink sweets.

Rosie has 4 blue sweets and 5 pink sweets.

Who has more sweets? Rosie
Explain how you know.

2 Colour the bar models to show that $3 + 6 = 8 + 1$

Write one more calculation that gives the same answer.
E.g. $2 + 7$

3 Draw counters to show $9 + 3$

Draw counters to show $9 + 4$

Write $<$, $>$ or $=$ to make the statement correct.
 $9 + 3 < 9 + 4$

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

a) $3 + 5 < 3 + 9$
 b) $7 + 2 > 4 + 2$
 c) $10 + 5 = 9 + 6$

Related facts

1 Use base 10 to show that $3 + 5 = 8$ and $30 + 50 = 80$
Draw your answer.

What is the same about your models?
What is different?

2 a) Eva has 2 red pens and 3 blue pens.

How many pens does Eva have? 5

b) Tommy has 20 red pens and 30 blue pens.

How many pens does Tommy have? 50

3 Fill in the missing numbers in the related facts.

a) $1 + 2 = 3$
 $10 + 20 = 30$
 b) $7 + 2 = 9$
 $70 + 20 = 90$
 c) $4 + 6 = 10$
 $40 + 60 = 100$