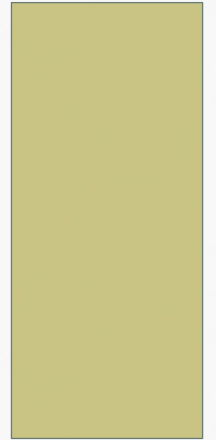


# GOOD LEARNERS

11<sup>TH</sup> SEPTEMBER 2015



To use a systematic approach to problem solving:

• **Fantastic adding** Find all options

$$6 = 3 + 3 \quad 8 = 3 + 5 \quad 10 = 7 + 3$$

$$10 = 5 + 5 \quad 14 = 11 + 3$$

or  $7 + 7$

$$16 = 13 + 3$$

or  $11 + 5$

$$22 = 19 + 3$$

$$18 = 17 + 11$$

or  $7 + 11$

$$20 = 17 + 3$$

or  $13 + 7$

$$23 = 23$$

or  $11 + 12$

$$24 = 19 + 5$$

$$26 = 23 + 3$$

$$30 = 29 + 1$$

$$32 = 29 + 3$$

$$34 = 31 + 3$$

$$36 = 31 + 5$$

$$38 = 31 + 7$$

$$40 = 29 + 11$$

Y9C

## Goldbach's Conjecture



### Main investigation

Christian Goldbach suggested that it was possible

"to express every even number greater than 4 as the sum of two prime numbers"

E.g.  $6 = 3 + 3$     $8 = 5 + 3$     $10 = 3 + 7$  or  $5 + 5$

Can you prove that Goldbach's conjecture is true for even numbers up to 100?

### Additional prompts/ideas/questions/extension

- Which even numbers can be written as the sum of two primes in two different ways, three different ways or even four different ways?

Which even numbers can be written as the sum of two primes in more than 4 ways?

3.9.15

L1: To write a recount

Cody



In the summer holidays I went to <sup>Burkina</sup> Burkina Faso.

At Burkina Faso I went on all the hides which was free.

I went swimming in Burkina Faso and that was fun. I went to Lego Land as well.

I went to Lego Land as well.

At Lego Land I went with my family and friends.

I went on all the rides which was free.

<sup>except</sup> I went on the boat ride which falls you.

left and right.

Some rides are large so I waited for a long time.

I went into the shop to have a look.

The shop was great.

DWP

Some brilliant language and sentence starters 😊

Try to not repeat yourself.

(SA) AC







3.9.10  
LI: To write a recount



EMILY.



I WENT to  
Tomsee raps

I went to  
holidays with  
my mum and  
dad and  
Sophie

I went to  
my nans  
house for a  
sleep over

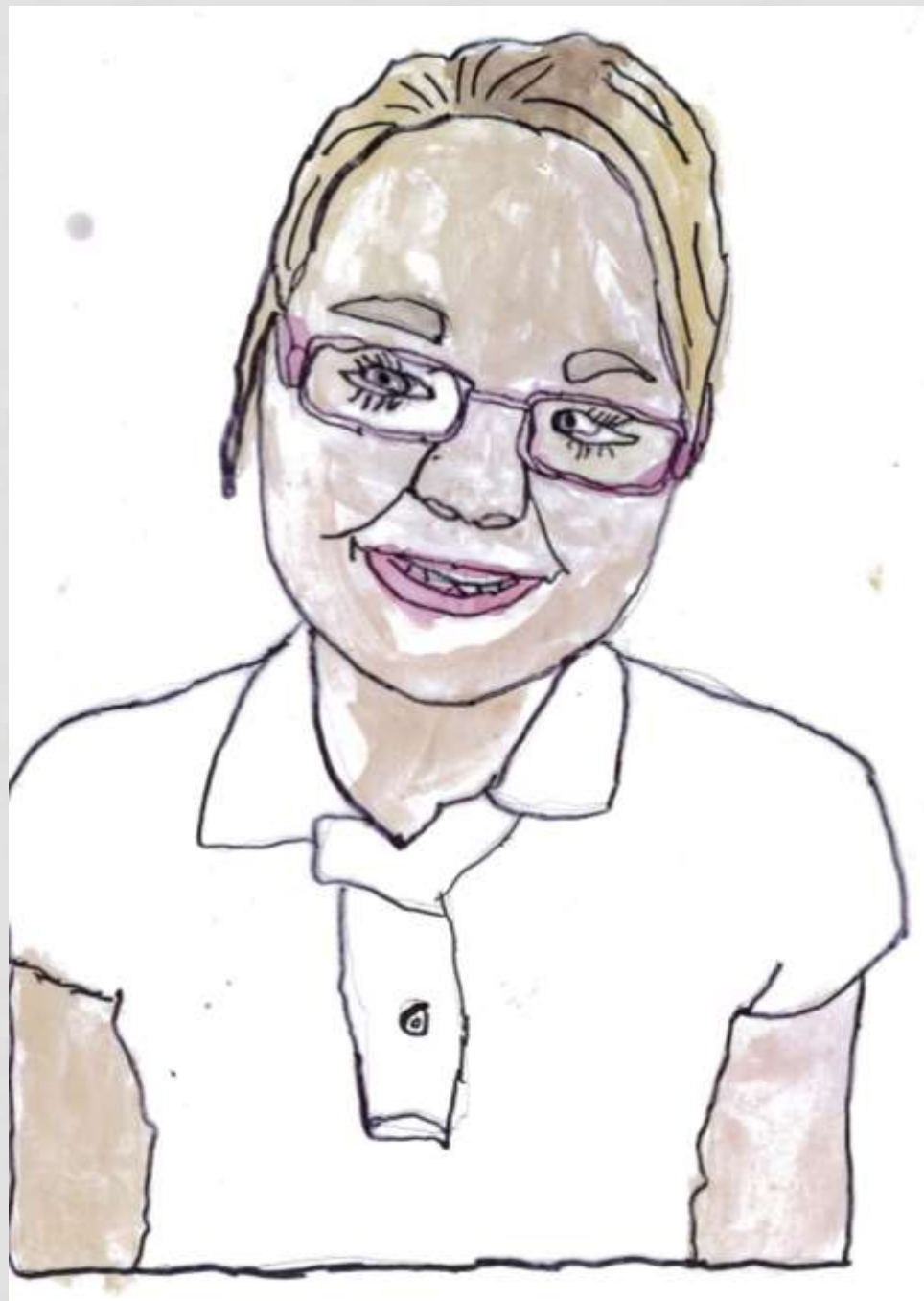
I went  
swimming with  
my mum and  
dad I went  
to my place



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fantastic writing!  
well done



Liam

# Dice Subtraction Game

Instructions:  
Roll a pair of dice and write the numbers in the boxes. Subtract the numbers and mark the answer in the box.

132	-	2	=	130	0	-	5	=	5
10	-	3	=	7	15	-	4	=	11
17	-	17	=	0	20	-	2	=	18
0	-	7	=	7	20	-	6	=	14
22	-	7	=	15	61	-	24	=	37
46	-	16	=	30	60	-	19	=	41

Use the inverse to work out the missing numbers

Thursday 3<sup>rd</sup> September 2015.

L. To use notes to create a paragraph.

Beautifully presented Lily

Building the Mary Rose

The Mary Rose is King Henry's War Ship.  
It got built in Portsmouth and traveled to London  
to get its guns. The Mary Rose was named  
after Henry's sister. ~~The Mary Rose~~ is the name  
Henry the 8<sup>th</sup> favorite ship. ~~The Mary Rose~~  
was built in 1547.

could you use any different sentence openers?

Life on board

There were 200 hundred people on  
the ship. And they worked as a  
carpenter, musser, gunner, cook, bosun, purser,  
archer. What would life have been like? There life  
will be like living in the street  
because it will be stinky and  
smelly.

How the Mary Rose sank

The Mary Rose sank in a matter  
of minutes.

Well done Lily, you have really thought  
about your writing 😊 Keep it up!





3.9.15 Matilda

LI: To write a recount



I went to the glaz  
with mum and dad  
first we got the in the  
car then we went  
on the ferry then  
went on the ship.  
then me and dad went  
on the cruise  
and dad was in  
I went to utieru  
I got to chortobever  
I went to outierungo  
with with m little  
and grandma we  
went in the car  
it was a long wa

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DWP

Well done - You have thought  
hard about your writing

Remember your punctuation to separate  
your sentences.

amw



3 + 15 = 18 → 18 ÷ 3 = 6  
5rich

# Make 37

15

Four bags contain a large number of 1s, 3s, 5s and 7s.

Pick any ten numbers from the bags so that their total is 37.

15



nrich.maths.org

7 + 7 + 1 + 1 = 16  
3 + 5 + 5 + 5 = 18  
1 + 1 + 1 + 1 = 4  
3 + 3 + 3 + 3 = 12  
5 + 1 + 7 + 3 = 16  
7 + 1 + 1 + 1 = 10  
5 + 5 + 5 + 5 = 20  
3 + 1 + 3 + 7 = 14  
1 + 5 + 7 + 1 = 14

You even shared this with the rest of the class!



**Kieran you are a super pattern spotter!**  
A super effort to solve the problem - well done 😊