



W.C. 27th April 2020

<https://www.bbc.co.uk/bitesize/tags/z63tt39/year-4-lessons/1>

Maths

Use these worksheets to work from and not on. All you need is a piece of paper, pencil and a ruler.

After watching the videos and having a go at the practise activities, have a go at these activities. Depending on your confidence choose Mild, Medium or Spicy (you may wish to have a go at more



Extensions – You may wish to deepen your learning by looking at the Collins Worksheets provided by the BBC too.

Monday

<https://www.bbc.co.uk/bitesize/articles/z6vr47h>

Add two four digit numbers

- When writing down sums, separate the numbers into ones, tens, hundreds and thousands.
- List the numbers in a column and always start adding with the ones first.
- Estimate first and check afterwards - it's a good idea to estimate a rough answer first and then check your actual answer.
- Order doesn't matter - for example, remember that **345 + 129** is the same as **129 + 345**.
- Key words - look out for these words in problems: total, sum, altogether, more. They all indicate an addition calculation.

Please have a go at the starter task (this task is for all)

STARTER:

How many different 4-digit numbers can you make out of these digits?

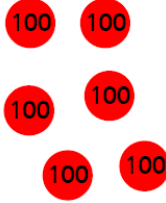
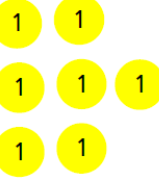
What is the largest number? What is the smallest number?

4 6 0 1

Mild

Please draw the counters instead (or you may choose to use what you have at home i.e. buttons)

1a. What number is represented by the place value counters below?

100s	10s	1s
		

^



Use counters and a place value grid to calculate $242 + 213$



Use counters and a place value grid to calculate $3,242 + 2,213$

1,000s	100s	10s	1s
  	 	   	 
 	 		  

Now calculate $3,242 + 213$ in the same way.
What is the same and what is different?



Calculate $314 + 522$

Use the place value chart to help you.

H	T	O
  		   
    	 	 

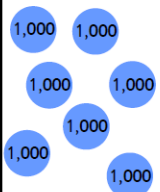
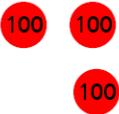
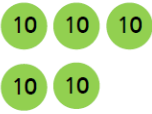
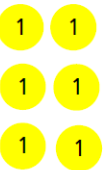
$314 + 522 = \boxed{}$

2a. What digit is missing from the calculation?

$$\begin{array}{r}
 \boxed{} \ 6 \ 5 \\
 + \ 1 \ 2 \ 3 \\
 \hline
 9 \ 8 \ 8 \\
 \hline
 \end{array}$$

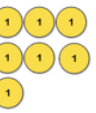
Medium

5a. What number is represented by the place value counters below?

1,000s	100s	10s	1s
			

Add 3,047 and 1,531 using the column method.
Use a place-value grid and counters to model each step.

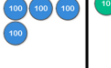
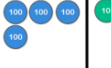
+

1,000s	100s	10s	1s
 		 	 

	3	0	4	7
+	1	5	3	1

Add 6,413 and 1,426 using the column method.
Use a place-value grid and counters to model each step.

+

1,000s	100s	10s	1s
 	 	 	 

	6	4	1	3
+	1	4	2	6

Work out the missing numbers.

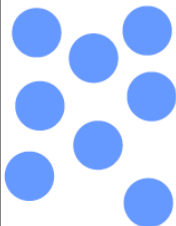
	Th	H	T	O
	4	—	6	—
+	2	5	—	1
	—	7	8	9

Complete the calculation.

$$\begin{array}{r}
 2 \quad 2 \quad 1 \quad 6 \\
 + \quad 1 \quad 6 \quad 6 \quad 2 \\
 \hline
 \\
 \hline
 \end{array}$$

Spicy

9a. What number is represented by the place value counters below?

1,000s	100s	10s	1s
			

Complete the calculations.

a) $4,122 + 2,605 =$

b) $3,709 + 4,160 =$

c) $247 + 1,032 =$

d) $3,007 + 560 =$

Alex is calculating $5,702 + 125$

		Th	H	T	O	
		5	7	0	2	
	+	1	2	5		
		6	9	5	2	

Do you agree with Alex? _____

Explain your answer.

Complete the calculation.

$5,702 + 125 =$

Rosie adds 2 numbers together that total 4,444



Both numbers have 4 digits.

All the digits in both numbers are even.

What could the numbers be?

Prove it.

How many ways can you find?

Two children completed the following calculation:

$1,234 + 345$



Dora

My answer is 1,589

My answer is 4,684



Alex

Both of the children have made a mistake in their calculations.

Calculate the actual answer to the question.

What mistakes did they make?

Tuesday

<https://www.bbc.co.uk/bitesize/tags/z63tt39/year-4-lessons/1>

Subtract two four digit numbers

Add information

Mild

1a. Circle the correct answer to the question below.

$$3,589 - 1,247 =$$

2,342

2,442

2,542

Use the place value chart to work out $5,624 - 2,301$

Th	H	T	O
1,000 1,000 1,000 1,000	100 100 100 100	10 10	1 1 1 1

2a. True or false?

The difference between
6,472 and 4,130 is 2,342

Eva uses place value counters to calculate $3,454 - 1,224$

Th	H	T	O
			
—	1	2	4
2	2	3	0

Use Eva's method to calculate:

$$2,348 - 235 = \underline{\quad\quad} \quad \underline{\quad\quad} = 4,572 - 2,341$$

$$6,582 - 582 = \underline{\quad\quad} \quad \underline{\quad\quad} = 7,262 - 7,151$$

How about you explain this to someone at home to check your understanding -

TEACH them! 😊

Medium:

5a. Circle the correct answer to the question below.

$$5,807 - 2,684 =$$

3,283

3,123

3,203

6a. True or false?

The difference between
8,214 and 3,192 is 5,022

▲

Complete the calculation.

	Th	H	T	O
	5	6	2	4
-	2	3	0	1

What is the same about the representations?

What is different?

Use a bar model to represent each problem.

There are 3,597 boys and girls in a school.
2,182 are boys. How many are girls?

Car A travels 7,653 miles per year.

Car B travels 5,612 miles per year.

How much further does Car A travel than Car B per year?

b) $5,361 - 3,241$

Th	H	T	O
1,000 1,000 1,000 1,000 1,000	100 100 100	10 10 10 10 10 10	1

	Th	H	T	O
	5	3	6	1
-	3	2	4	1

c) $7,405 - 404$

Th	H	T	O
1,000 1,000 1,000 1,000 1,000 1,000 1,000	100 100 100 100		1 1 1 1 1

	Th	H	T	O
	7	4	0	5
-		4	0	4

Complete the calculations.

a)

		Th	H	T	O	
		9	3	1	6	
	-	7	2	0	5	

c)

		Th	H	T	O	
		4	9	2	7	
	-		3	1	5	

b)

		Th	H	T	O	
		8	0	6	1	
	-	3	0	6	0	

Aisha is calculating $7,585 - 316$

		Th	H	T	O	
		7	5	8	5	
	-	3	1	6		
		4	4	2	5	

Do you agree with Aisha? Explain your answer.

Eva is performing a column subtraction with two four digit numbers.



The larger number has a digit total of 35

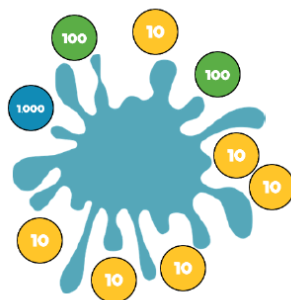
The smaller number has a digit total of 2

Use cards to help you find the numbers.

What could Eva's subtraction be?

How many different options can you find?

There are counters to the value of 3,470 on the table but some have been covered by the splat.



What is the total of the counters covered?
How many different ways can you make the missing total?

Wednesday

<https://www.bbc.co.uk/bitesize/tags/z63tt39/year-4-lessons/1>

Efficient subtraction methods

Please take a look at the starter question (all have a go at this)

STARTER:

How many different strategies can you think of to find the difference between 595 and 925?

*Which written methods can you think of?
Which mental methods can you think of?
Which methods that involve equipment (concrete methods)
can you think of?*

Mild:

Tinaya finds the difference between two numbers.

It is 1,200.

She alters her numbers by adding one to both of her numbers.

What will the difference be now?

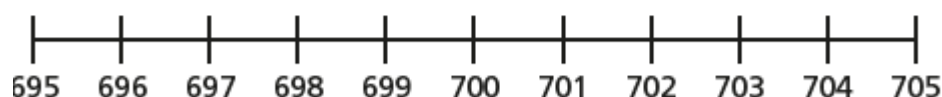
Choose one answer.

1,198 1,199 1,200 1,201 1,202

a) Use the column method to work out $704 - 696$

		H	T	O	
		7	0	4	
	-	6	9	6	

b) Count on the number line to work out $704 - 696$



c) Which method do you prefer? Why?

Ron, Rosie and Dexter are calculating $7,000 - 3,582$

Here are their methods:

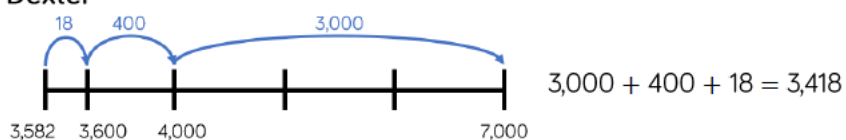
Ron

	Th	H	T	O
	6	9	9	0
-	3	5	8	2
	3	4	1	8

Rosie

	Th	H	T	O
	6	9	9	9
-	3	5	8	1
	3	4	1	8

Dexter



Whose method is most efficient?

Use the different methods to calculate $4,000 - 2,831$

Medium:

Complete the subtractions by counting on.

a) $902 - 897$

b) $1,902 - 1,894$

c) $2,027 - 1,999$

a) Use column subtraction to complete the calculations.

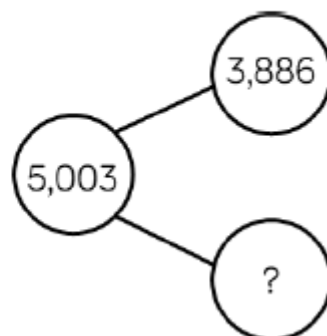
		H	T	O	
		7	0	0	
	-	3	4	8	

		Th	H	T	O	
		6	0	0	0	
	-	2	1	4	5	

What do you notice?

Find the missing numbers.
What methods did you use?

3,465	
2,980	?



Spicy:

1.

Rosie's method

		H	T	O	
		6	9	9	
	-	3	4	8	
		3	5	1	

$$351 + 1 = 352$$

$$\text{so } 700 - 348 = 352$$

Use Rosie's method to work out $6,000 - 2,145$

Amir's method

		H	T	O	
		7	0	0	
	-	3	4	8	
		3	5	2	

		H	T	O	
		6	9	9	
	-	3	4	7	
		3	5	2	

Whose method do you prefer, Rosie's or Amir's?

Use the column method to work out the subtractions.

a) $500 - 341$

c) $£3,000 - £2,782$

b) $1,000 - 729$

d) $10,000 \text{ mm} - 7,302 \text{ mm}$

2.

Amir has £1,000



He buys a scooter for £345 and a skateboard for £110

How much money does he have left?

Show 3 different methods of finding the answer.

Explain how you completed each one.

Which is the most effective method?

Look at each pair of calculations.

Which one out of each pair has the same difference as $2,450 - 1,830$?

$2,451 - 1,831$ $2,451 - 1,829$

$2,500 - 1,880$ $2,500 - 1,780$

$2,449 - 1,829$ $2,449 - 1,831$

When is it useful to use difference to solve subtractions?

3.

Thursday

Today you can challenge yourself with the key skills test, along with the other websites suggested on the home learning page (Rock Stars and Bite Size).

Remember these sheets are only to work from **not on** so do not worry if you cannot complete a couple of the questions.

Mild

A: Place Value, Add and Subtract		B: Multiply, Divide and Fractions	
1. What is the missing number? 0 8 24 32	3:1	11. $36 \div 3 =$	
2. What is the 2 worth in this number? 257	3:2	12. $8 \times 3 =$	
3. Put these in order, smallest first. 293 329 932 392	3:3	13. Use $5 \times 6 = 30$ to solve: $300 \div 6 =$	
4. Draw an arrow to label 40. 	3:4	14. Eggs come in boxes of 6. I need 20 eggs. How many boxes should I buy?	
5. Circle all the multiples of 8. 6 8 14 16 20	3:5	15. What fraction is shaded? 	
6. $462 + 100 =$	3:6	16. Circle $\frac{3}{5}$ of the marbles. 	
7. $256 + 128 =$	3:7	17. What fraction is labelled? 	
8. Write the sum to check $82 - 37 = 45$. Check: $45 + \square = \square$	3:8	18. $\frac{1}{4} = \frac{?}{8}$ 	
9. To a no. I add 27 then subtract 19. I now have 13. What did I start with?	3:9	19. Subtract the fractions. $\frac{7}{8} - \frac{3}{8}$	
10. What is the missing number? $149 + \square = 211$	3:9	20. Write the largest fraction. $\frac{2}{5} \quad \frac{1}{5} \quad \frac{4}{5} \quad \frac{3}{5}$	

Medium and Spicy

A: Place Value, Add and Subtract		B: Multiply, Divide and Fractions															
1. What is the missing number? 14 28 35 42	1	11. $7 \times 12 =$															
2. What is the missing number? 36 42 48 60	1	12. Complete the sum that is equal to 24×11 : $2 \times$ $\times 11$															
3. Round this number to the nearest 10: 2,167	2	13. $95 \times 8 =$															
4. Round this number to the nearest 100: 1,543	4	14. One wooden block is 6cm tall. If 12 blocks are piled up, how tall are they?															
5. What is the next number in this sequence: 4, 3, 2, 1, 0,	2	15. $\frac{1}{5} = \frac{?}{20}$ <table border="1"><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table>															
6. Write < or > to make this correct: 1,782 2,817	3	16. To share a number into hundredths you divide it by .															
7. What number does this Roman Numeral represent? LX	43	17. $\frac{12}{9} - \frac{7}{9}$															
8. $2,725 + 834 =$	5	18. Write $\frac{1}{10}$ as a decimal number.															
9. Estimate the answer to: $6,504 - 4,478$	5	19. What is the value of the 7 in: 1.72															
10. A pet mouse weighed 65g. Its weight doubled. How heavy is it now?	5	20. Put these heights in order, smallest first: 1.4m 1.18m 1.22m															

Friday

<https://www.bbc.co.uk/bitesize/tags/z63tt39/year-4-lessons/1>

Challenges for the week (which is Friday's Daily Lesson)

Please leave out Thursday lesson and complete Friday's lesson from Bitesize instead.