



Year 3 Maths and English Home Learning | Summer Term



W.C. 27th April

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

If you have a question, please email us, Miss O'Rourke and Miss Driver will be happy to help wherever we can!

After watching the videos and having a go at the practise activities on BBC Bitesize, have a go at these activities. Depending on your confidence choose Mild, Medium or Spicy.

Depper Learning - You may wish to deepen your learning by looking at fractions and time!

Fractions - use this resource to learn about what are fractions.

<https://www.coolmath4kids.com/math-help/fractions/what-are-fractions?page=3> Can you draw shapes and show a fraction. For example: Draw a square, split it in half and colour one half. Write the fraction. Make it as challenging as you like!

Time - <https://www.youtube.com/watch?v=8RJzoyIVzV8> watch this video to help your learning of how to tell the time. You could try draw your own clocks and draw/write the time.

Addition and Subtraction

Knowledge Organiser

Key Vocabulary

add
total
plus
sum
more
altogether
difference
subtract
less
minus
take away
column addition
column subtraction
exchange
estimate
inverse operation
solve problems
number facts
place value

Addition and Subtraction Methods

3 digit and 1 digit numbers

Not crossing 10s

$$268 - 4 = 264$$

Hundred	Ten	Ones
		

$$343 + 6 = 349$$



Crossing 10s (Exchanging)

324		
300	20	4
300	10	14
		

$$316 + 8 = 324$$

316	8
	

$$324 - 8 = 316$$

3-digit and 2-digit numbers

Add and subtract tens

Hundred	Ten	Ones
		

$$451 + 3 \text{ tens} = 481 \quad (5 + 3 = 8)$$

$$451 - 4 \text{ tens} = 411 \quad (5 - 4 = 1)$$

Crossing 10s (Exchanging)

$$258 + 80 = 338$$

- Column method
- Count in 10s mentally
- Add 100, subtract 20

Crossing 10 and 100

$$\begin{array}{r} 368 \\ +73 \\ \hline 1 \end{array} \quad \begin{array}{r} 368 \\ +73 \\ \hline 41 \end{array} \quad \begin{array}{r} 368 \\ +73 \\ \hline 441 \end{array}$$

$$\begin{array}{r} 31 \\ 441 \\ -73 \\ \hline 8 \end{array} \quad \begin{array}{r} 313 \\ 441 \\ -73 \\ \hline 68 \end{array} \quad \begin{array}{r} 3131 \\ 441 \\ -73 \\ \hline 368 \end{array}$$

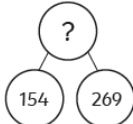
3-digit numbers

Not crossing

$$679 - 351 = 328$$

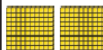
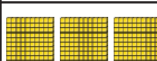
Hundred	Ten	Ones
		

Crossing 10s (Exchanging)

	$\begin{array}{r} 269 \\ +154 \\ \hline 423 \\ 11 \end{array}$		
<table border="1" data-bbox="1126 633 1334 732"> <tr><td>514</td></tr> <tr><td>268 ?</td></tr> </table>	514	268 ?	$\begin{array}{r} 4101 \\ -268 \\ \hline 3831 \end{array}$
514			
268 ?			

Add and Subtract 100s

$$264 + 300 = 564$$

Hundred	Ten	Ones
		
		

 visit [twinkl.com](https://www.twinkl.com)

Use the knowledge organiser to help you with using the correct vocabulary and methods for each type of question.

Monday

Adding two three-digit numbers.

<https://www.bbc.co.uk/bitesize/articles/z72dwty>

Column addition

Numbers can be added together using the column method which involves writing one number underneath the other.

What is $343 + 315$?

$$\begin{array}{r}
 343 \\
 + 315 \\
 \hline
 8
 \end{array}$$

Mild: Use the column method to work out..

		H	T	O	
		4	5	3	
	+	1	2	5	

- 2 Kim uses counters and a place value chart to help her work out $362 + 205$

Hundreds	Tens	Ones
● ● ●	● ● ● ● ● ●	● ●
	● ● ● ● ● ●	

	H	T	O
	3	6	2
+	2	0	5

- a) Draw counters to complete the chart.
b) Complete the column addition.

Medium : Have a go at some of these questions. Use the videos on bitesize to remind you of each step when exchanging. You could also draw counters on your sheet like below to help you work questions out.

- Use place value counters to calculate $455 + 436$

H	T	O
100 100 100 100	10 10 10 10 10	1 1 1 1 1
100 100 100 100	10 10 10 10	1 1 1 1 1

	4	5	5
+	4	3	6

1.				2.				3.				4.			
	1	0	9		4	5	5		1	7	0		5	5	4
+	1	3	9	+	2	8	1	+	2	4	9	+	2	0	9

5.				6.				7.				8.			
	1	9	6		6	2	8		6	7	7		5	2	4
+	7	0	6	+	3	1	9	+	1	6	0	+	2	0	8

Spicy

Jack is calculating $506 + 243$

Here is his working out.

		5	6
+	2	4	3
	2	9	9

Can you spot Jack's mistake?
Work out the correct answer.

Here are three digit cards.

2	3	4
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Alex and Teddy are making 3-digit numbers using each card once.



Alex

I have made the greatest possible number.

I have made the smallest possible number.



Teddy

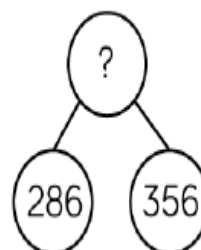
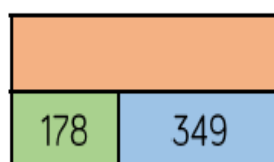
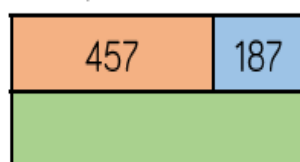
Work out the total of their two numbers.

Mrs Morgan drives 230 km on Monday.

On Tuesday she drives 169 km.

How far does she drive in total on Monday and Tuesday?

 Complete the models.



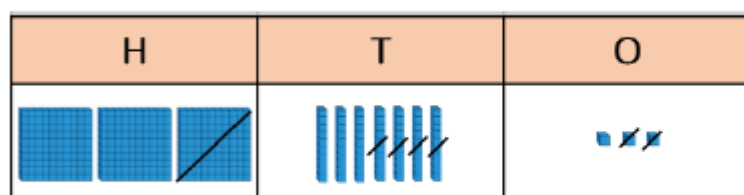
Tuesday

Subtracting two three-digit numbers.

Mild

Try drawing base 10 to help you.

 Mo uses Base 10 to subtract 142 from 373



	3	7	3
—	1	4	2

Use Mo's method to calculate:

$$565 - 154$$

$$565 - 145$$

$$565 - 165$$

Medium

Remember when exchanging if you change one column then you must change another. For example: In Q1 below, you will give a ten to the ones column. You will need to change the 80 to 70 as you have exchanged the 10.



Complete the column subtractions showing any exchanges.

	H	T	O
	6	8	3
—	2	3	4

	H	T	O
	2	3	4
—	1	9	5

	H	T	O
	5	0	7
—	4	5	1

Spicy:

Work out the missing digits.

	H	T	O
	5	?	3
—	2	1	8
	3	1	5

	H	T	O
	?	0	?
—	2	?	8
	2	4	6

Eva is working out $406 - 289$

Here is her working out:

Step 1	Step 2
$\begin{array}{r} \overset{3}{\cancel{4}}\overset{1}{0}6 \\ - 289 \\ \hline 7 \end{array}$	$\begin{array}{r} \overset{2}{\cancel{4}}\overset{1}{0}\overset{1}{6} \\ - 289 \\ \hline 027 \end{array}$

Explain her mistake.

What should the answer be?

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What number is hidden under the splat?

	3 ²	2	9
—	1	7	3
		5	6

A 2 B 1 C 3 D 4

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Wednesday

Efficient addition and subtraction methods

Mild

- 2 Alex has 262 stickers.
He buys 6 more.
How many stickers does he have now?

What method could you use to work this out?

$$17 + 42 = \underline{\hspace{2cm}}$$

$$55 - 19 = \underline{\hspace{2cm}}$$

$$34 + 82 = \underline{\hspace{2cm}}$$

Could you draw base 10 to help you work these out?

Medium

How can you work this out? Could you show this question and answer in a bar model?

Find the missing number.

$$522 = 8 + \underline{\hspace{2cm}}$$

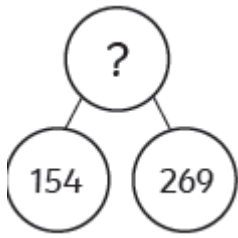
Tommy makes this number.



He subtracts forty.

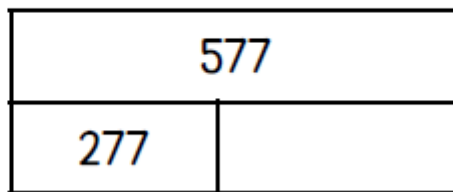
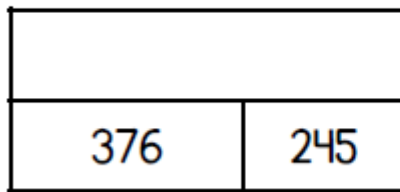
What is Tommy's new number?

Which method will you use to work this out? What is the answer?



Spicy

Complete the bar models.



Rosie wants to work out $102 - 98$ in her head.

Explain a method that Rosie could use.

WhiteRoseMaths

Which calculation could you use to find the missing number?

$425 + \square = 927$

A B C D

927 + 425 425 - 927 425 + 927 927 - 425

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Thursday

Mixed addition and subtraction problems

Mild

1. John buys 12 pencils one week and 7 the following week. He gives 3 pencils to his friend.

How many pencils does he have left?

'Fill in the missing numbers.'

100	
10	?

100	
50	?

$$100 = 70 + \square$$

$$100 = \square + 40$$

$$\square + 30 = 100$$

$$60 + \square = 100$$

$$100 - 30 = \square$$

$$\square - 60 = 40$$

$$\square = 100 - 70$$

$$\square = 100 - 40$$

Medium

540	
300	240

$$\square + \square = \square$$

$$\square + \square = \square$$

$$\square - \square = \square$$

$$\square - \square = \square$$

Work out the different calculations you can create.

1. There are 167 books in one classroom and 392 books in the other.
How many books are there altogether in both classrooms? _____
2. Jay has a collection of 263 football cards. His brother has 189.
How many more football cards does Jay have? _____
3. A family drive 289km from Canberra to Sydney, and then 149km on to Newcastle.
How far did they travel altogether? _____
4. A cricket team score 456 in the first innings and 249 in the second innings.
How many runs did they score altogether? _____

Spicy

Explain the mistake.

	7	4	2
—		6	7
	7	2	5

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What number would complete the part whole model?

A 323

B 429

C 25

D 8

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Complete using column subtraction.

A 194

B 1202

C 104

D 6

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Friday

Quiz and Times Table Rockstars

Mild

Medium/Spicy

A: Place Value, Add and Subtract	B: Multiply, Divide and Fractions
1. What is the missing number? 0 3 6 9 12	11. $48 \div 4 =$
2. Circle the 2s that have a value of 20 . 12 28 32 21	12. $4 \times 7 =$
3. Draw an arrow to label 17. 	13. Use $35 \div 7 = 5$ to solve: $350 \div 70 =$
4. Put these in order, smallest first. 6 26 62 2	14. What is the missing number? $45 \div \square = 3 \times 3$
5. Write this number in words. 27	15. What is the missing fraction? $\frac{2}{10}$, $\frac{3}{10}$, $\frac{\square}{\square}$
6. There are 12 people on a bus. 13 more get on. How many people now?	16. Shade $\frac{2}{3}$ of the counters.
7. Use $8 + 12 = 20$ to answer: $16 + \square = 40$	17. What fraction is labelled?
8. $27 + 32 =$	18. This shape is in sixths. Shade in $\frac{2}{3}$.
9. Tick (✓) if true: $13 + 9 = 9 + 13$ ☐ $21 - 4 = 4 - 21$ ☐	19. Subtract the fractions. $\frac{5}{6} - \frac{1}{6}$
10. Use $79 - 36 = 43$ to help find: $43 + 36 = \square$	20. Write the smallest fraction. $\frac{3}{7}$ $\frac{4}{7}$ $\frac{6}{7}$ $\frac{2}{7}$

Times Table Rockstars

Have a go at your times tables on TTRockstars this week. Maybe you could battle with one of your friends? We can't wait to see how much your times tables have improved!

