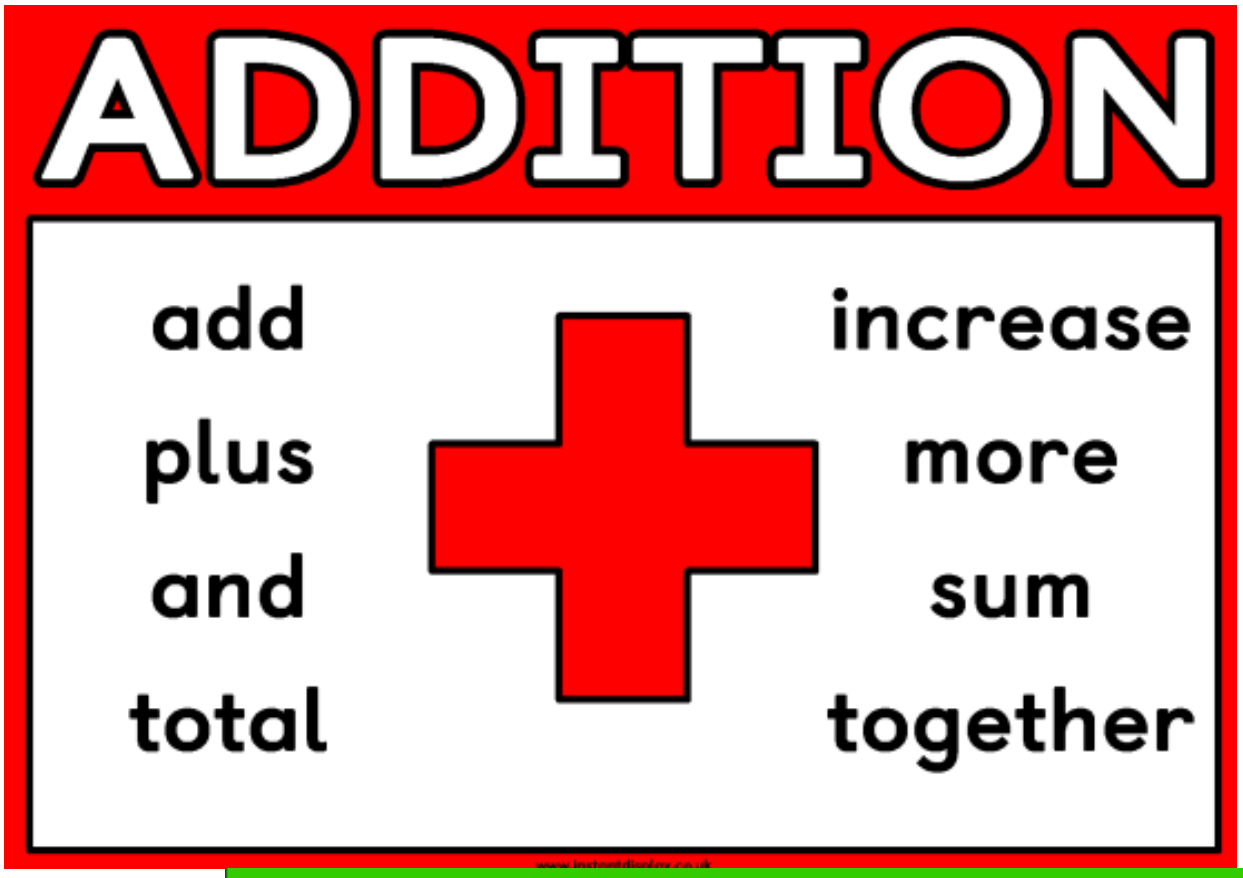
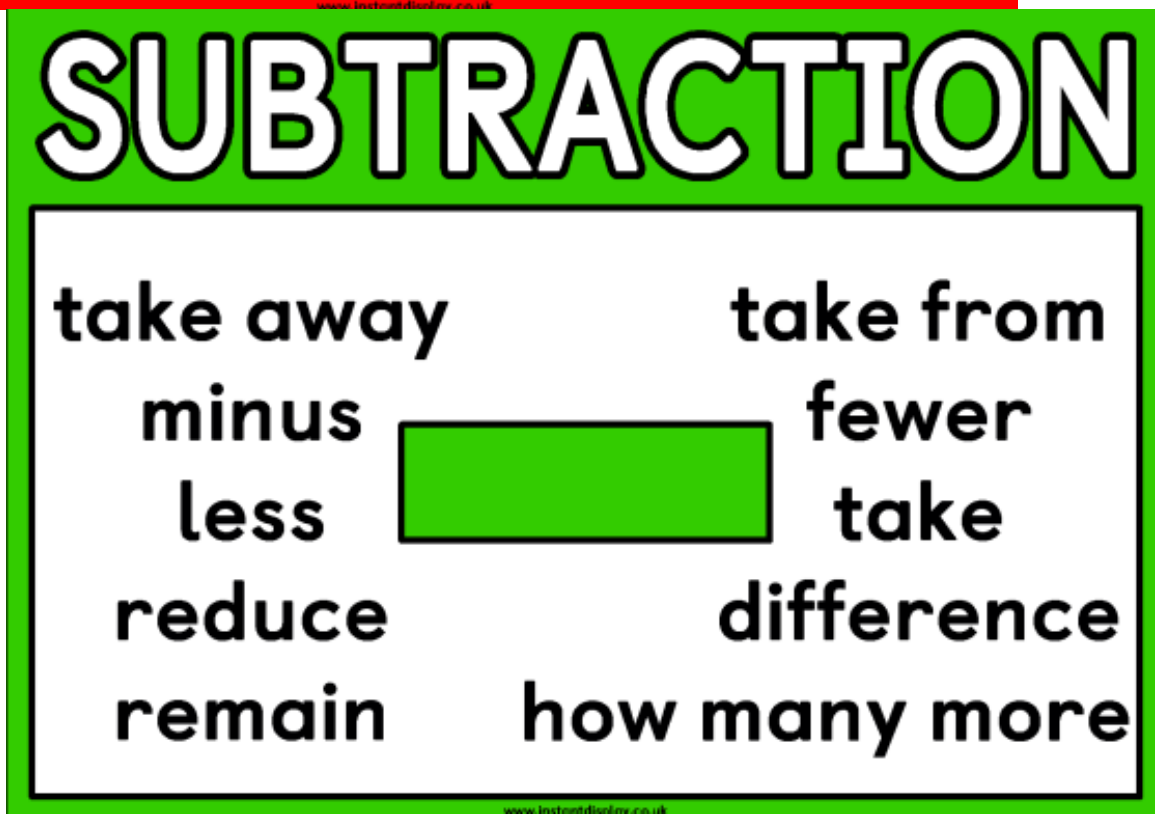
Vocabulary





Videos to further explain each of the methods used in the following lessons can be found at:

https://whiterosemaths.com/homelearning/year-5/week-4/

Date	
Subject/s	Maths
Learning Objective 	To recall and use multiplication and division facts

1) 7 x 2 = _____
2) 3 x 8 = _____
3) 4 x 6 = _____
4) 2 x 9 = _____
5) 6 x 4 = _____
6) 8 x 4 = _____
7) 7 x 5 = _____
8) 9 x 10 = _____
9) 6 x 6 = _____
21) 8 x 6 = _____
22) 7 x 9 = _____
23) 6 x 7 = _____
24) 8 x 8 = _____
25) 6 x 3 = _____
26) 9 x 6 = _____
27) 7 x 5 = _____
28) 8 x 9 = _____
29) 10 x 7 = _____

1) 6 x _____ = 18
2) 8 x _____ = 16
3) _____ x 7 = 7
4) _____ x 9 = 45
5) 7 x _____ = 21
6) _____ x 6 = 36
7) _____ x 8 = 40
8) 9 x _____ = 90
9) _____ x 8 = 32
10) _____ x 6 = 24
11) 7 x _____ = 63
12) _____ x 6 = 0
13) _____ x 8 = 80
14) 9 x _____ = 54
15) 6 x _____ = 42
16) _____ x 8 = 56
17) _____ x 9 = 81
18) 6 x _____ = 30
19) 8 x _____ = 48
20) _____ x 9 = 18
21) _____ x 7 = 49
22) 8 x _____ = 72
23) _____ x 6 = 48
24) 9 x _____ = 45
25) _____ x 7 = 63
26) 6 x _____ = 36
27) 8 x _____ = 64
28) _____ x 6 = 42
29) _____ x 9 = 72
30) 7 x _____ = 56
31) _____ x 8 = 48
32) 6 x _____ = 60
33) 9 x _____ = 45
34) _____ x 8 = 72
35) _____ x 7 = 28
36) 9 x _____ = 81
37) _____ x 6 = 6
38) _____ x 8 = 64
39) 7 x _____ = 49
40) _____ x 9 = 54

Steps to Success

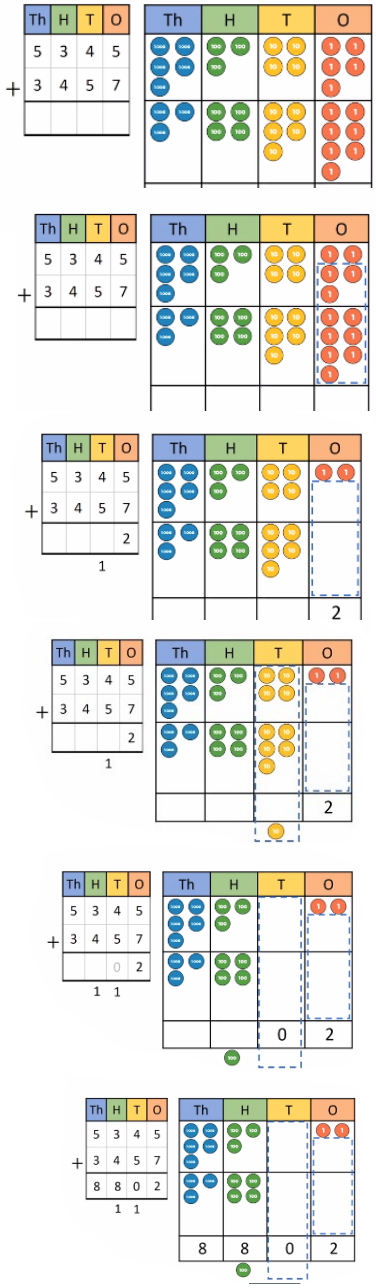
Date	
Subject/s	**Maths**
Learning Objective	To add numbers with four or more digits

		SA	TA
Success Criteria	I can use place value columns to set out calculation		
	I understand when to exchange		
	I can use number bonds to add efficiently		
Support	Independent Adult Support ( ) Group Work		

Pre-task:

Calculate 7084 + 9118

Calculate 87623 + 3789



Here you can see the column method alongside place value counters.

Can you spot which columns we will need to make an exchange from?

First, I can see that the ones column shows 5 +7. This will make a total greater than 9 so I will need to exchange.

You can see the exchange recorded here— the ones have been written in the ones column and the exchange is written just under the tens column next to it.

Now look at the tens column, you can see, that when I add in the exchange I now have 4 + 5 + 1 = 10, so I will need to exchange again.

You can see it recorded here.

Now I just need to add the remaining columns. They both total less than 9 so no more exchanges are needed.

Fluency

Complete these on the squared paper on the next page

3451 + 5432 = _____

1763 + 4342 = _____

1812 + 5231 = _____

1083 + 2155 = _____

3321 + 7238 = _____

7667 + 4715 = _____

1902 + 4873 = _____

1099 + 2137 = _____

2561 + 6273 = _____

Fluency answers

3451 + 5432 = **8883**

1763 + 4342 = **6105**

1812 + 5231 = **7043**

1083 + 2155 = **3238**

3321 + 7238 = **10559**

7667 + 4715 = **12382**

1902 + 4873 = **6775**

1099 + 2137 = **3236**

2561 + 6273 = **8834**

Problem Solving and Reasoning

Five children have been playing a times tables game.
Here are their scores:

Lottie	Sam	Izzy	Abdul	Ffion
32 357	30 541	34 057	31 647	33 587

a) Which two children have a combined score of exactly 62 188?

b) Which two children have a combined score of exactly 65 944?

Use it!

Annie, Mo and Alex are working out the solution to the calculation 6,374 + 2,823

Annie's Strategy

Explain it!

6,000 + 2,000 = 8,000
300 + 800 = 110
70 + 20 = 90
4 + 3 = 7
8,000 + 110 + 90 + 7 = 8,207

Mo's Strategy

	6	3	7	4
+	2	8	2	3
	8	1	9	7

Alex's Strategy

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

Who is correct?

Complete:

	Th	H	T	O
	6	?	?	8
+	?	?	8	?
	9	3	2	5

Mo says that there is more than one possible answer for the missing numbers in the hundreds column.
Is he correct?
Explain your answer.

Explain it!

Problem Solving and Reasoning - Answers

Use it!

~~Explain it!~~

a) Abdul and Sam

b) Lottie and Ffion

Alex is correct with 9,197

Annie has miscalculated 300 + 800, forgetting to exchange a ten hundreds to make a thousand (showing 11 tens instead of 11 hundreds).

Mo has forgotten both to show and to add on the exchanged thousand.

The solution shows the missing numbers for the ones, tens and thousands columns.

6,__38 + 2,__87

Mo is correct. The missing numbers in the hundreds column must total 1,200 (the additional 100 has been exchanged).

Possible answers include:
6,338 + 2,987
6,438 + 2,887

Further Challengee

Rank by difficulty

2996 + 1650

3461 + 2537

4837 + 2189

Date	
Subject/s	Maths
Learning Objective 	To recall and use multiplication and division facts

3 x 4 =	7 x 8 =	9 ÷ 3 =	36 ÷ 12 =
21 ÷ 7 =	8 x 6 =	12 x 4 =	10 x 8 =
4 x 8 =	3 x 9 =	4 x 7 =	3 x 11 =
40 ÷ 8 =	15 ÷ 3 =	27 ÷ 9 =	20 ÷ 4 =
4 x 11 =	48 ÷ 6 =	8 ÷ 4 =	6 x 8 =
5 x 8 =	11 x 3 =	5 x 8 =	80 ÷ 10 =
24 ÷ 4 =	88 ÷ 11 =	24 ÷ 3 =	4 x 1 =
72 ÷ 8 =	8 x 4 =	9 x 4 =	8 x 5 =
10 x 3 =	16 ÷ 4 =	8 x 11 =	6 x 4 =
5 x 4 =	32 ÷ 8 =	6 ÷ 3 =	3 ÷ 3 =
12 ÷ 3 =	3 x 6 =	48 ÷ 12 =	44 ÷ 11 =
4 x 9 =	8 ÷ 8 =	3 x 4 =	7 x 3 =
11 x 8 =	4 x 3 =	0 x 8 =	12 x 8 =
3 x 12 =	48 ÷ 8 =	18 ÷ 3 =	28 ÷ 4 =
24 ÷ 8 =	30 ÷ 10 =	3 x 3 =	56 ÷ 7 =
27 ÷ 3 =	8 x 9 =	64 ÷ 8 =	4 x 12 =
7 x 4 =	10 x 4 =	36 ÷ 4 =	5 x 3 =
36 ÷ 9 =	16 ÷ 8 =	8 x 8 =	56 ÷ 7 =
56 ÷ 8 =	8 x 3 =	21 ÷ 3 =	4 x 6 =
3 x 0 =	72 ÷ 9 =	4 x 12 =	32 ÷ 4 =
12 ÷ 4 =	3 x 8 =	96 ÷ 12 =	12 x 3 =
33 ÷ 3 =	4 x 4 =	24 ÷ 8 =	7 x 8 =
6 x 3 =	9 x 8 =	2 x 3 =	9 x 3 =
40 ÷ 4 =	4 ÷ 4 =	11 x 4 =	21 ÷ 3 =
28 ÷ 7 =	3 x 7 =	32 ÷ 8 =	8 x 12 =

Steps to Success

Date	
Subject/s	**Maths**
Learning Objective	To add numbers with four or more digits - continued

		SA	TA
Success Criteria	I can use place value columns to set out calculation		
	I understand when to exchange		
	I can use number bonds to add efficiently		
Support	Independent Adult Support ( ) Group Work		

Teacher Led

Remember that it is important to line the digits up—look at this example, they will get the wrong answer because they've written three hundred and seventeen as thirty-one thousand, seven hundred. It can help to say the numbers out loud.

Here is how it should be set out.

	TTh	Th	H	T	O
	2	2	0	5	6
+	3	1	7		

	TTh	Th	H	T	O
	2	2	0	5	6
+			3	1	7
	2	2	3	7	3

Don't forget to add your exchanges—can you spot the mistake in this one?

	TTh	Th	H	T	O
		7	2	4	0
+		2	8	1	9
		9	0	5	9
		1			

Well done—the thousands column should add to 10, so needs to be exchanged.

Here is the correct solution.

	TTh	Th	H	T	O
		7	2	4	0
+		2	8	1	9
	1	0	0	5	9
	1	1			

Look at this example—you can follow the same method, even if there are more than two numbers to add!

	TTh	Th	H	T	O
	6	3	0	7	0
		7	6	0	0
+			5	8	2
	7	1	2	5	2
	1	1	1		

Fluency

Use the square paper on the next page to work out your answers.

Find the total number of website hits on each day.

Day of the week	am	pm	Total number of hits
Sunday	36,432	57,478	
Monday	19,758	24,642	
Tuesday	21,427	32,846	
Wednesday	16,375	25,342	
Thursday	18,631	26,492	
Friday	17,563	42,869	
Saturday	33,642	58,567	

Now add the total hits for the days from Monday to Friday.

Fluency — Answers

Sunday	36,432 + 57,478 = 93,910
Monday	19,758 + 24,642 = 44,400
Tuesday	21,427 + 32,846 = 54,273
Wednesday	16,375 + 25,342 = 41,717
Thursday	18,631 + 26,492 = 45,123
Friday	17,563 + 42,869 = 60,432
Saturday	33,642 + 58,567 = 92,209

Monday to Friday =

44400 + 54273 = 41717 = 45123 + 60432 = 245945

Problem Solving and Reasoning

Use it!

Work out the missing numbers.

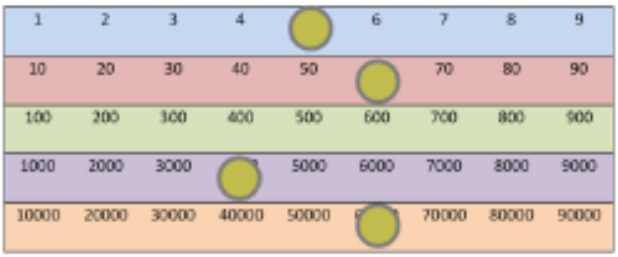
	?	4	?	3	?
+	2	?	5	?	2
	7	8	5	2	9

Explain it!

Amir is discovering numbers on a Gattegno chart.

Use it!

He makes this number.



Amir moves one counter three spaces on a horizontal line to create a new number.

When he adds this to his original number he gets 131,130

Which counter did he move?

Problem Solving and Reasoning – Answers

$54{,}937 + 23{,}592 = 78{,}529$

He moved the counter on the thousands row, he moved it from 4,000 to 7,000

Further Challenge

How many ways?

Complete using digits 1-9. Use the 7 as shown.

□□ 7 = □ + □ + □ + □

Level 1: I can find a way

Level 2: I can find different ways

Level 3: I know how many ways there are