

The background is a dark grey chalkboard with various white chalk drawings. On the left, there's a large sketch of a microscope. Above it is a globe of the Earth. Below the microscope are several books. In the bottom right, there are sketches of a plus sign, a percentage sign, and an exclamation mark. The overall theme is education and science.

Maths parent workshop

White Rose - [Maths resources for teachers](#) | [White Rose Maths](#)

[Advice and guidance for parents](#)
[| White Rose Maths](#)

[Maths home learning](#) | [Home learning](#) | [White Rose Maths](#)

Schools & teachers

Parents

Shop

Who we are

Sign up to our newsletter

Be the first to find out about our latest resources, training and events



White Rose calculation policy

[wrm-addition-subtraction-calculation-policy-july-2022.pdf](#)

Year 1 - 6

Calculation Policy

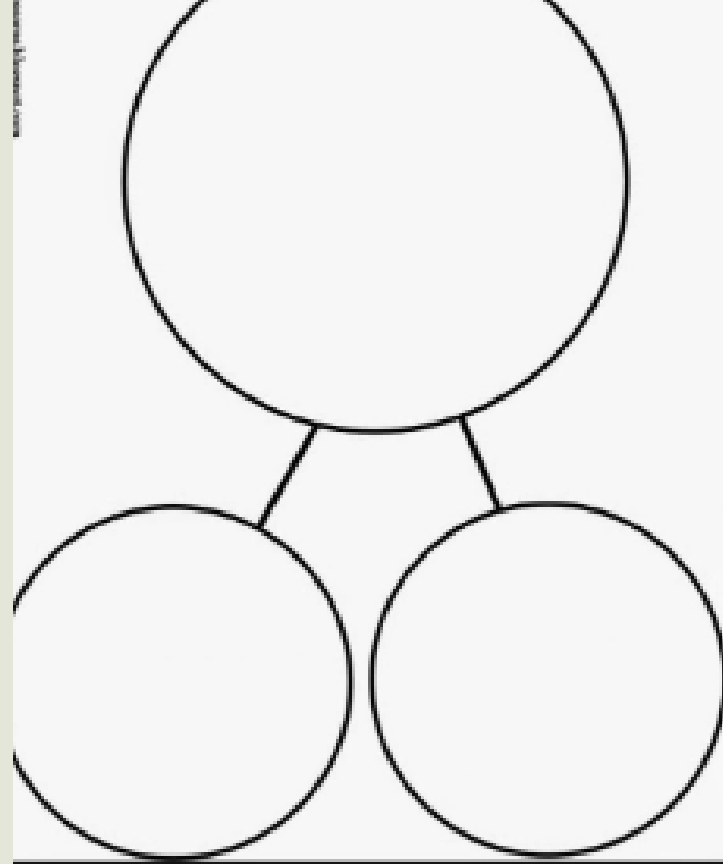
Addition and Subtraction

#MathsEveryoneCan

Number Chart 1 to 100

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

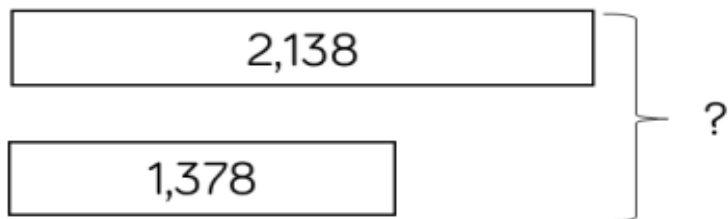
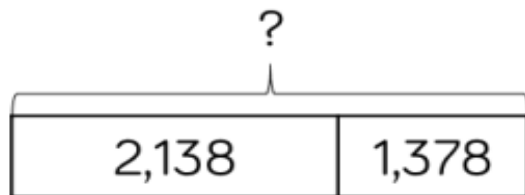
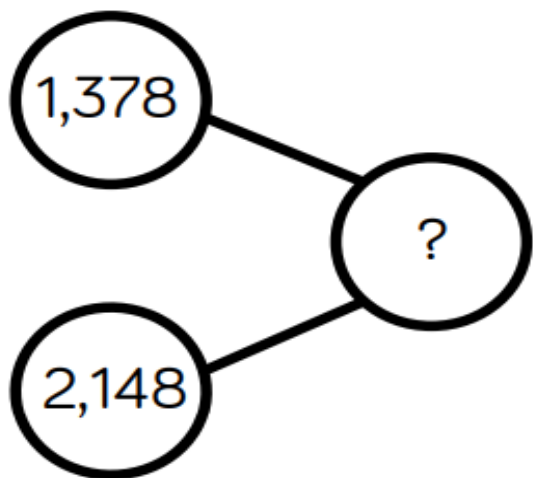
- [Paint the Squares - Interactive Number Charts \(topmarks.co.uk\)](https://www.topmarks.co.uk/Interactive-Number-Charts)
- One more, one less, ten more, ten less.



- Partitioning. Can include whole numbers, decimals and fractions.

Skill: Add numbers with up to 4 digits

Year: 4



	1	3	7	8
+	2	1	4	8
	3	5	2	6
		1	1	

$$1,378 + 2,148 = 3,526$$

Thousands	Hundreds	Tens	Ones

Thousands	Hundreds	Tens	Ones

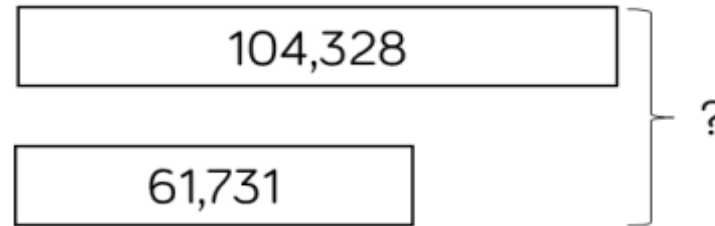
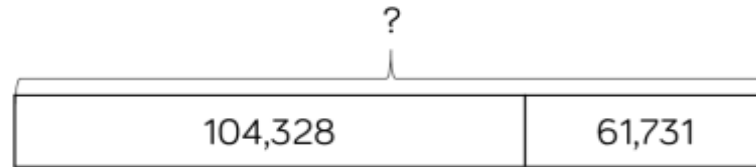
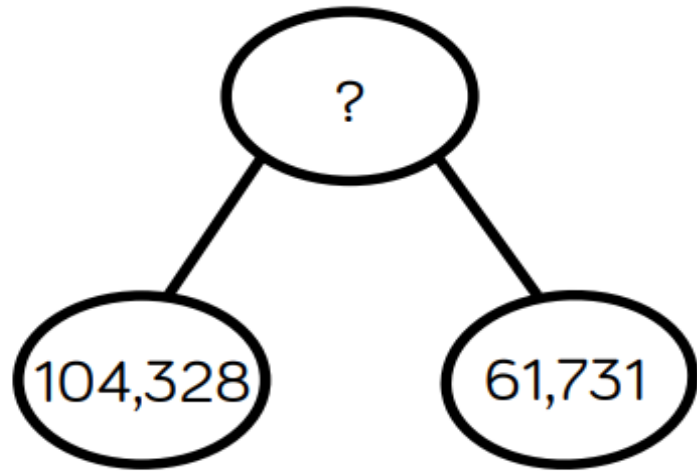
Base 10 and place value counters are the most effective manipulatives when adding numbers with up to 4 digits.

Ensure children write out their calculation alongside any concrete resources so they can see the links to the written column method.

Plain counters on a place value grid can also be used to support learning.

Skill: Add numbers with more than 4 digits

Year: 5/6



$$104,328 + 61,731 = 166,059$$

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

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

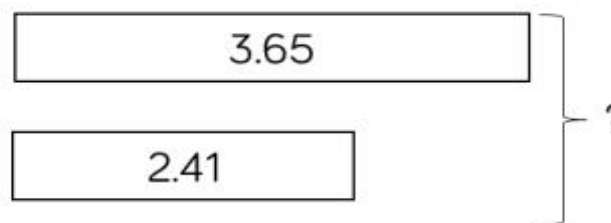
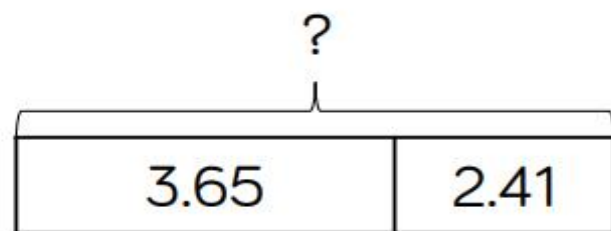
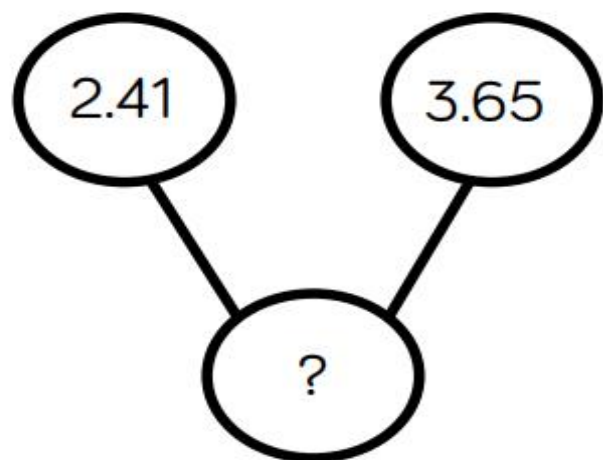
1

Place value counters or plain counters on a place value grid are the most effective concrete resources when adding numbers with more than 4 digits.

At this stage, children should be encouraged to work in the abstract, using the column method to add larger numbers efficiently.

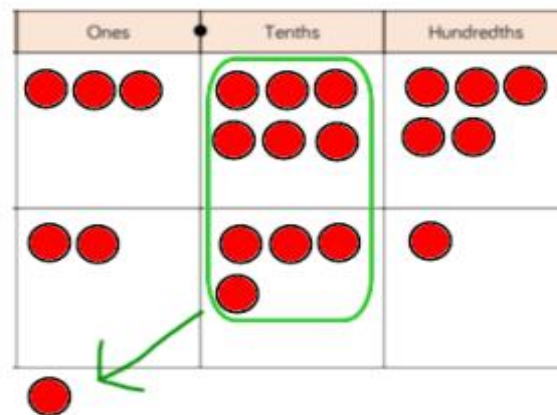
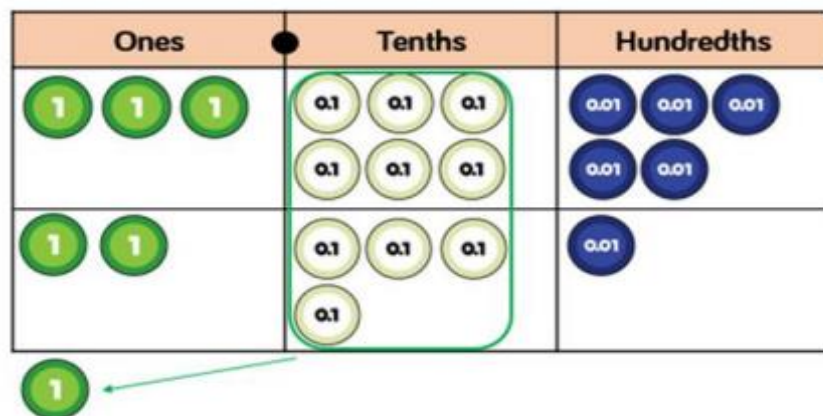
Skill: Add with up to 3 decimal places

Year: 5



$$\begin{array}{r} 3.65 \\ + 2.41 \\ \hline 6.06 \\ 1 \end{array}$$

$$3.65 + 2.41 = 6.06$$

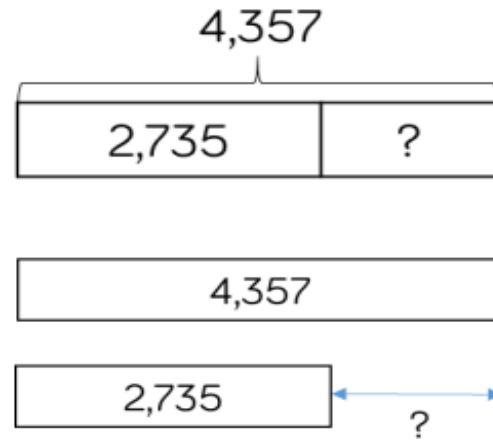
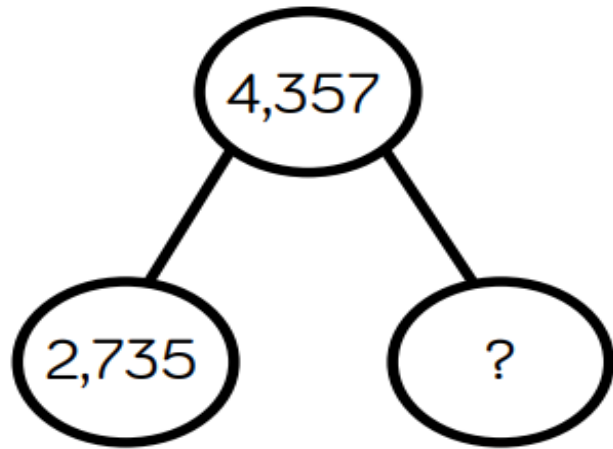


Place value counters and plain counters on a place value grid are the most effective manipulatives when adding decimals with 1, 2 and then 3 decimal places.

Ensure children have experience of adding decimals with a variety of decimal places. This includes putting this into context when adding money and other measures.

Skill: Subtract numbers with up to 4 digits

Year: 4



$$\begin{array}{r}
 \begin{array}{l} 3 \quad 1 \\ \cancel{4}357 \end{array} \\
 - 2735 \\
 \hline
 1622
 \end{array}$$

$$4,357 - 2,735 = 1,622$$

Thousands	Hundreds	Tens	Ones

Thousands	Hundreds	Tens	Ones

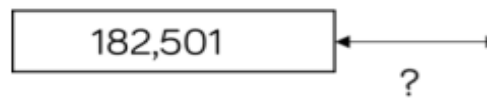
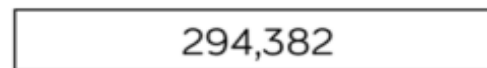
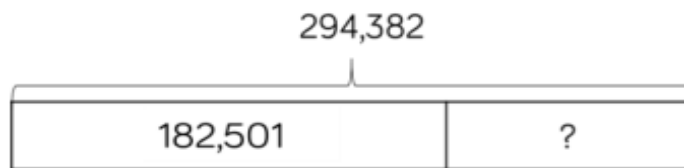
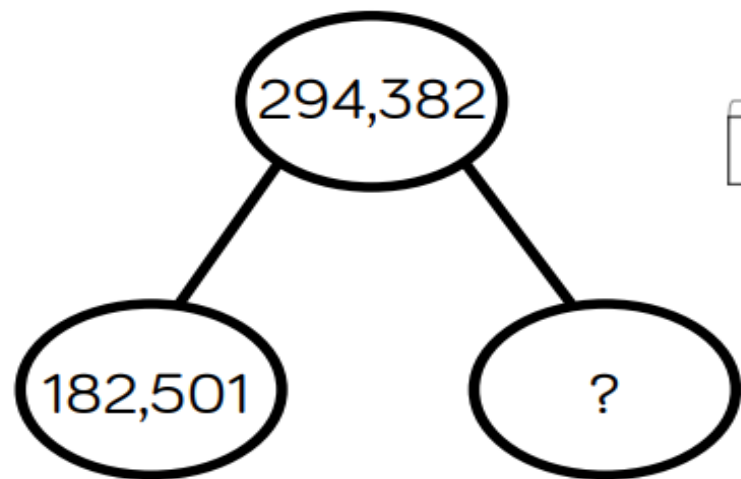
Base 10 and place value counters are the most effective manipulatives when subtracting numbers with up to 4 digits.

Ensure children write out their calculation alongside any concrete resources so they can see the links to the written column method.

Plain counters on a place value grid can also be used to support learning.

Skill: Subtract numbers with more than 4 digits

Year: 5/6



$$294,382 - 182,501 = 111,881$$

HTh	TTh	Th	H	T	O

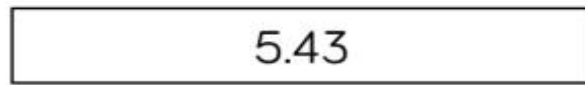
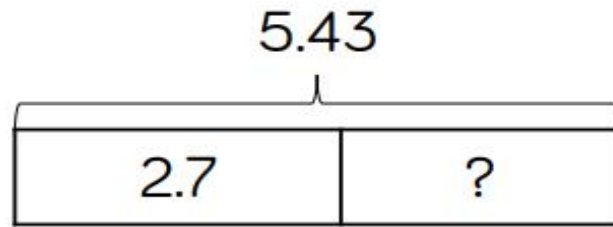
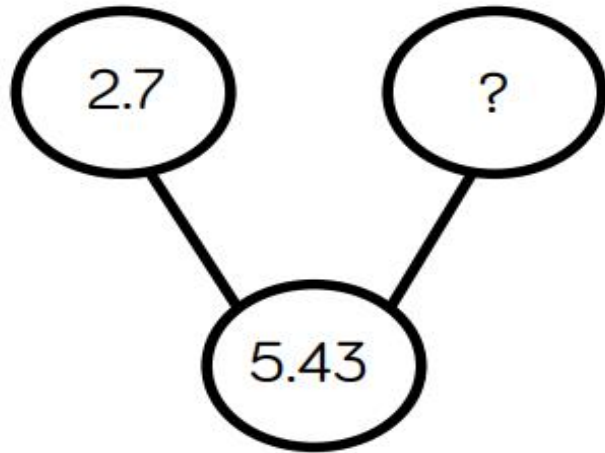
	2	9	3	13	8	2
-	1	8	2	5	0	1
	1	1	1	8	8	1

Place value counters or plain counters on a place value grid are the most effective concrete resource when subtracting numbers with more than 4 digits.

At this stage, children should be encouraged to work in the abstract, using column method to subtract larger numbers efficiently.

Skill: Subtract with up to 3 decimal places

Year: 5/6



$$\begin{array}{r}
 4 \quad 1 \\
 5.43 \\
 - 2.7 \\
 \hline
 2.73
 \end{array}$$

$$5.43 - 2.7 = 2.73$$

Ones	Tenths	Hundredths
1 1 1 1 1	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	0.01 0.01 0.01

Ones	Tenths	Hundredths
3 red circles (2 crossed out) 2 red circles (1 crossed out)	4 red circles 1 red circle 9 red circles (6 crossed out) 3 red circles (2 crossed out) 1 red circle (crossed out)	3 red circles

Place value counters and plain counters on a place value grid are the most effective manipulative when subtracting decimals with 1, 2 and then 3 decimal places.

Ensure children have experience of subtracting decimals with a variety of decimal places. This includes putting this into context when subtracting money and other measures.

[The Comprehensive Maths Vocabulary List for KS1 and KS2](https://www.thirdspacelearning.com)
(Free Download) ([thirdspacelearning.com](https://www.thirdspacelearning.com))

Concept	Definition	My Notes
Parallel lines	Lines with no common points and always the same distance apart.	
Parallelogram	A four-sided polygon with opposite sides equal and parallel and the opposite angles are equal in size.	
Perimeter	The length of the distance around the boundary of a shape.	
Perpendicular line	A line at right angles to another line or plane.	
Polyhedron	A three dimensional shape with plane faces.	
Place value	Indicates the position of a numeral (e.g. the place value of the 3 in 738 is 30)	
Prime number	A number with only two factors, 1 and itself (e.g. 2,3,5,7,11, 13, 17, 19, 23...)	
Product	The result when two or more numbers are multiplied.	

Homework

- Doodle Learning
- Sheet of work to consolidate
- Times tables up to 12 x 12
- Number bonds to 100
- Telling the time- Y4- To the nearest minute, analogue and digital, 12 and 24-hour