



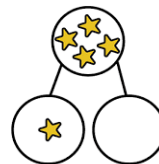
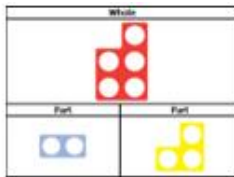
Elburton Primary School

Addition & Subtraction Calculation Policy

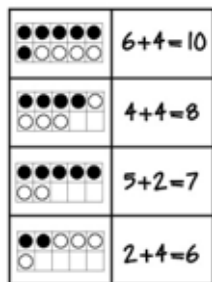
October 2022	Policy Agreed
July 2024	Policy Review Date
Date	Description

Early Years Addition

Explore the part/part/whole relationship, using concrete materials:



Use the five and tens frame to support understanding of number and addition of single digits:



Solve problems using concrete materials and pictorial images to support:



Which one has more?

Use number lines alongside number tracks and practical apparatus to solve addition calculations and word problems.

What is 1 more than 4?



Support children with reading number sentences aloud in different ways with stem sentences.

*"Three add two equals five." or "Five is equal to three and two."
or "Five is the same as three and two."*

Solve simple problems using fingers.



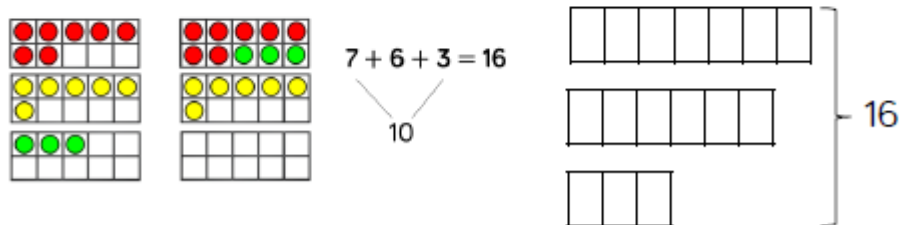
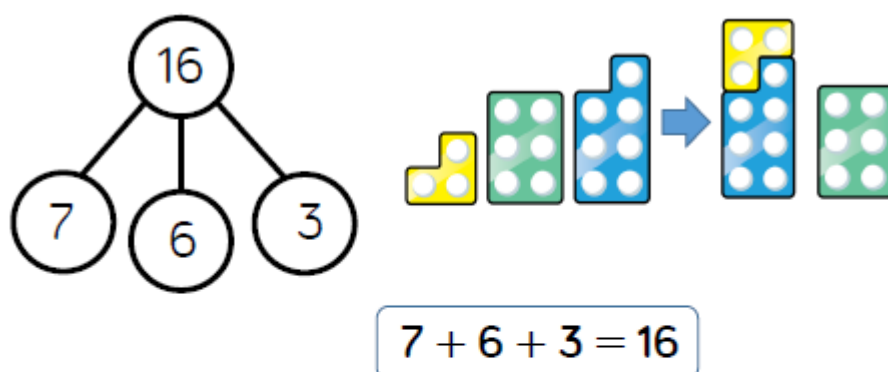
$$5 + 1 = 6$$

Key Stage 1 & 2 – Addition Skills

Skill	Year	Representations & Models	
Add two 1-digit numbers to 10	1	Part-whole model Bar Model Number shapes	Ten frames (within 10) Bead strings (10) Number tracks
Add 1 and 2-digit numbers to 20	1	Part-whole model Bar Model Number shapes Ten frames (within 20)	Bead strings (10) Number tracks Number lines (labelled)
Add three 1-digit Numbers	2	Part-whole model Bar Model	Ten frames (within 20) Number shapes
Add 1 and 2-digit numbers to 100	2	Part-whole model Bar Model Number line (labelled)	Number lines (blank) Hundred square
Add two 2-digit Numbers	2	Part-whole model Bar Model Number line (blank) Straws	Base 10 Place value counters
Add with up to 3-digits	3	Part-whole model Bar Model	Base 10 Place value counters Column addition
Add with up to 4-digits	4	Part-whole model Bar Model	Base 10 Place value counters Column addition
Add with more than 4-digits	5	Part-whole model Bar Model	Place value counters Column addition
Add with up to 3 decimal places	5	Part-whole model Bar Model	Place value counters Column addition

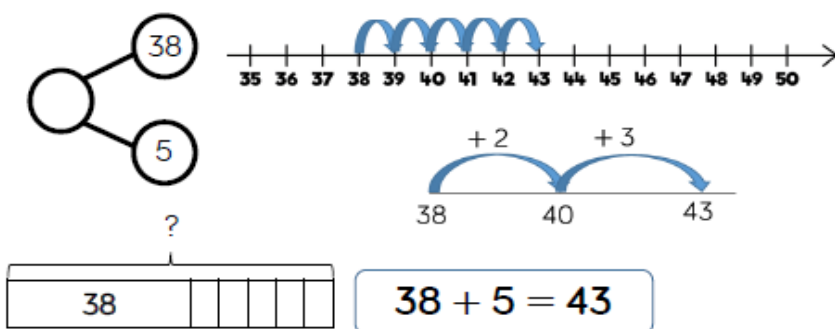
Year 2

Add three 1-digit numbers



Year 2 and 3

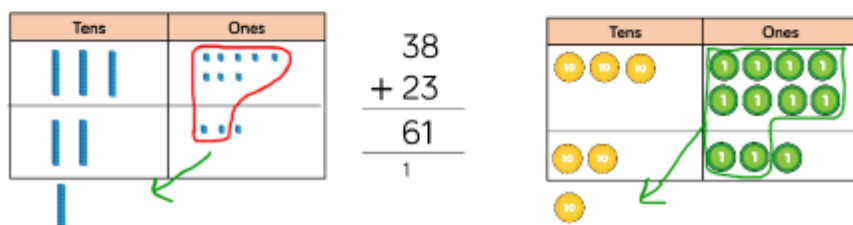
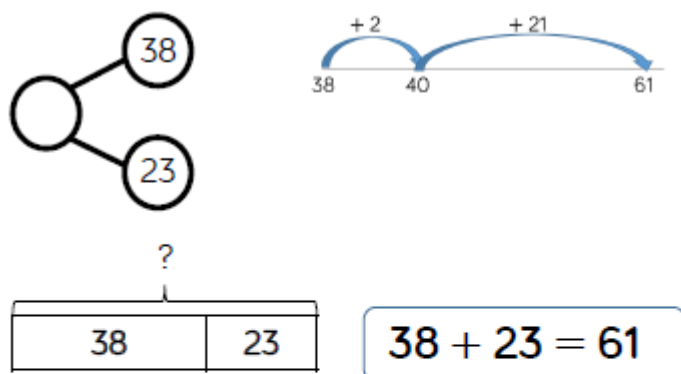
Add 1-digit and 2-digit numbers to 100



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

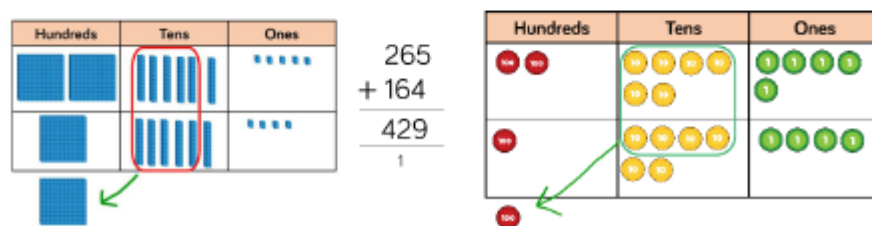
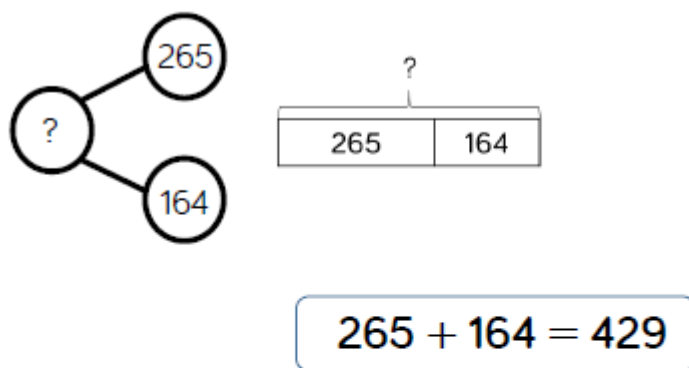
Year 2 and 3

Add two 2-digit numbers to 100



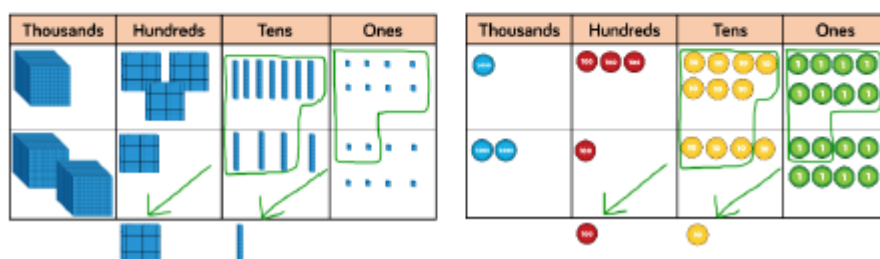
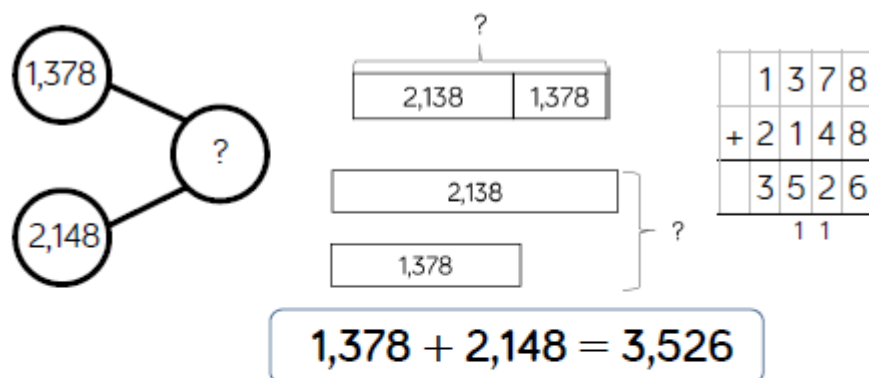
Year 3

Add numbers with up to 3 digits



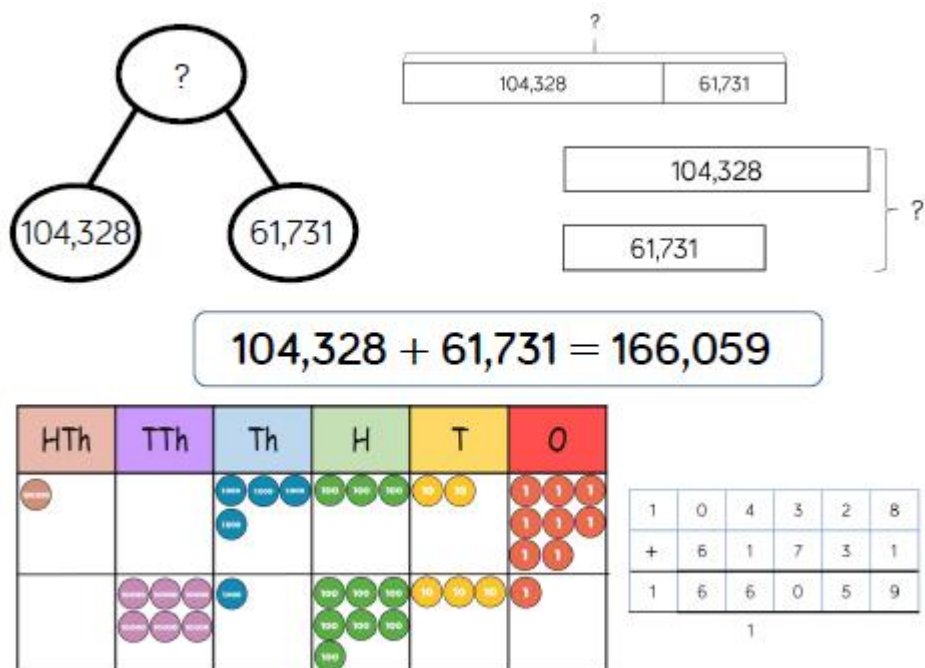
Year 4

Add numbers with up to 4-digits



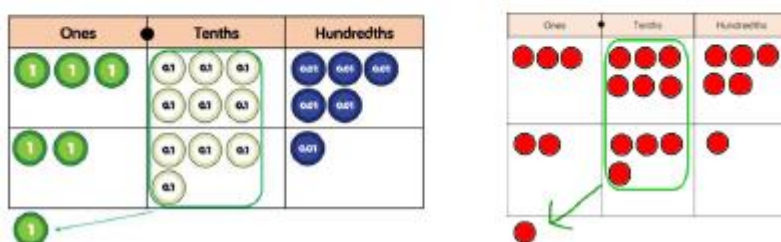
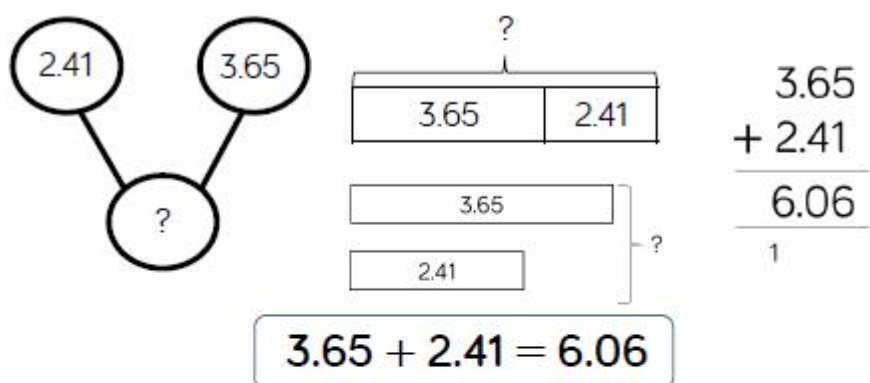
Year 5 and 6

Add numbers with more than 4-digits



Year 5

Add with up to 3 decimal places



Year 6

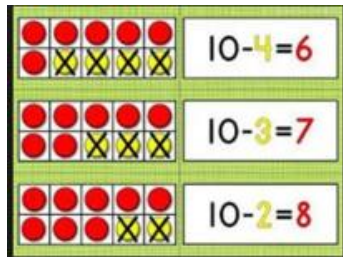
By Year 6, pupils should be using a variety of mental methods as well as formal written methods to add numbers.

Early Years Subtraction

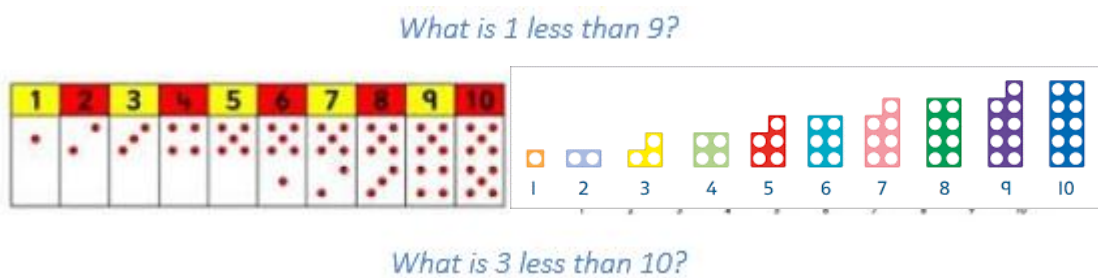
Use concrete resources to help build and reinforce the concept of taking away.



Use a five and a ten frame to support subtraction by taking away



Introduce number tracks and number lines alongside concrete resources to count back and to find one less.



Solve simple problems using fingers.

$$5 - 1 = 4$$



Construct number sentences using stem sentences – “Five take away 1 equals 4.”

$$5 - 1 = 4$$

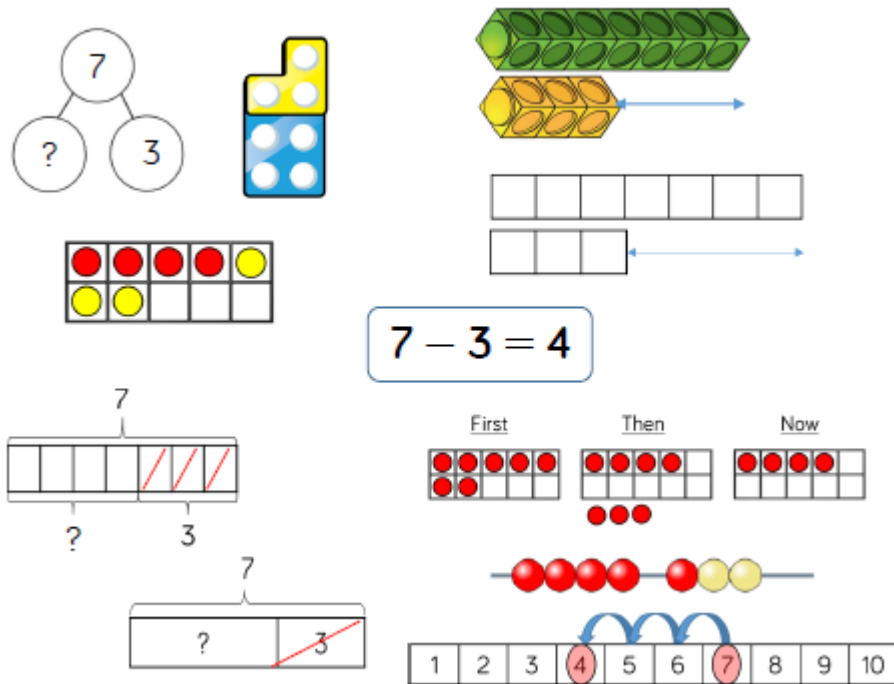


Key Stage 1 & 2 – subtraction Skills

Skill	Year	Representations & Models	
Subtract two 1-digit numbers to 10	1	Part-whole model Bar Model Number shapes	Ten frames (within 10) Bead strings (10) Number tracks
Subtract 1 and 2-digit numbers to 20	1	Part-whole model Bar Model Number shapes Ten frames (within 20)	Bead strings (20) Number tracks Number lines (labelled)
Subtract 1 and 2-digit numbers to 100	2	Part-whole model Bar Model Number lines (labelled)	Number lines (blank) Hundred square
Subtract two 2-digit numbers	2	Part-whole model Bar Model Number line (blank) Straws	Base 10 Place value counters
Subtract with up to 3-digits	3	Part-whole model Bar Model	Base 10 Place value counters Column subtraction
Subtract with up to 4-digits	4	Part-whole model Bar Model	Base 10 Place value counters Column addition
Subtract with more than 4 digits	5	Part-whole model Bar Model	Place value counters Column addition
Subtract with up to 3 decimal places	5	Part-whole model Bar Model	Place value counters Column addition

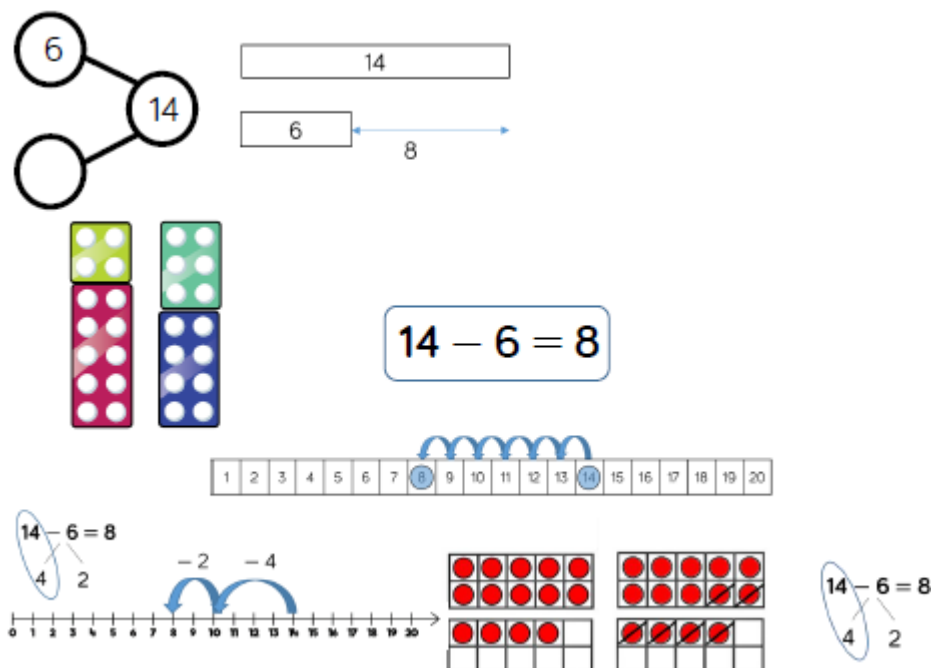
Year 1

Subtract 1-digit numbers within 10



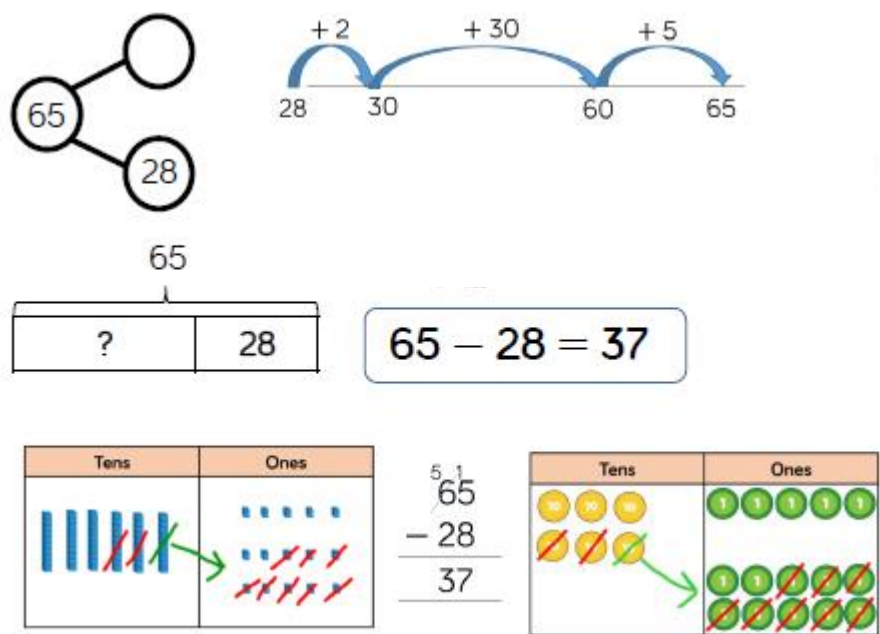
Year 1 and 2

Subtract 1 and 2-digit numbers to 20



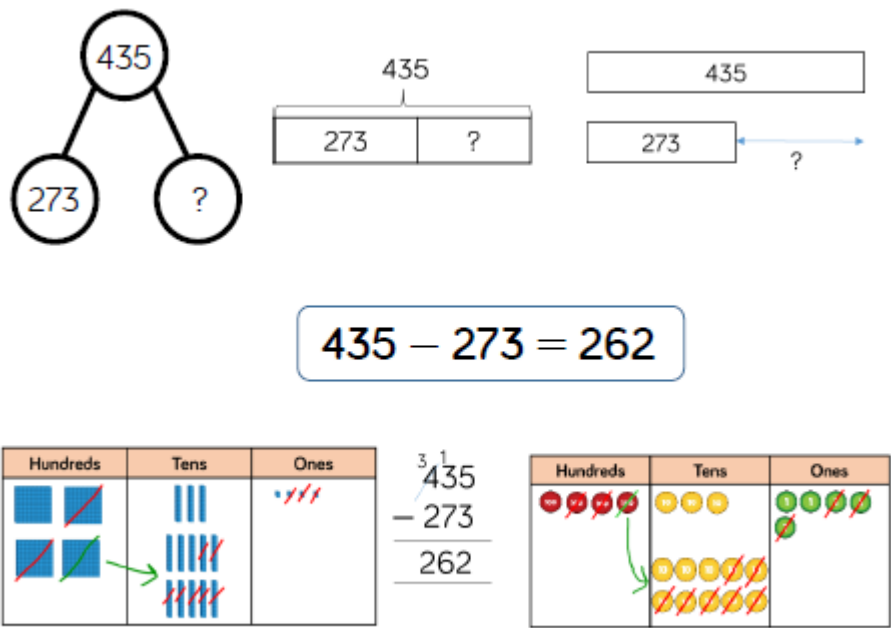
Year 2 and 3

Subtract 1 and 2-digits numbers to 100



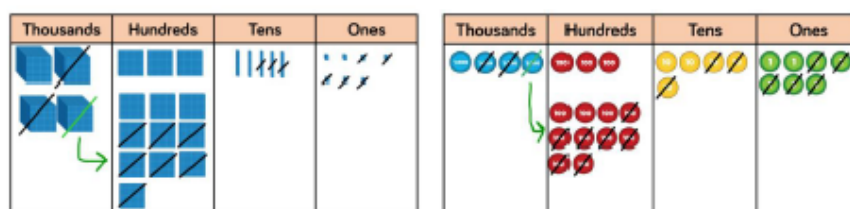
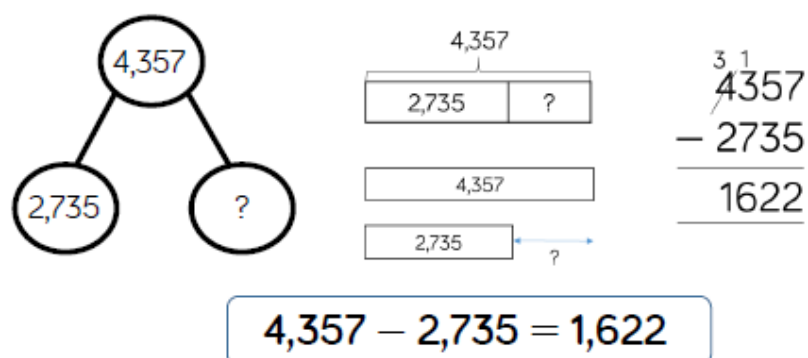
Year 3

Subtract numbers with up to 3-digits



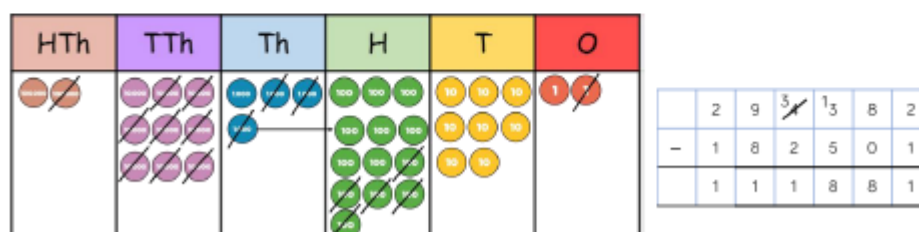
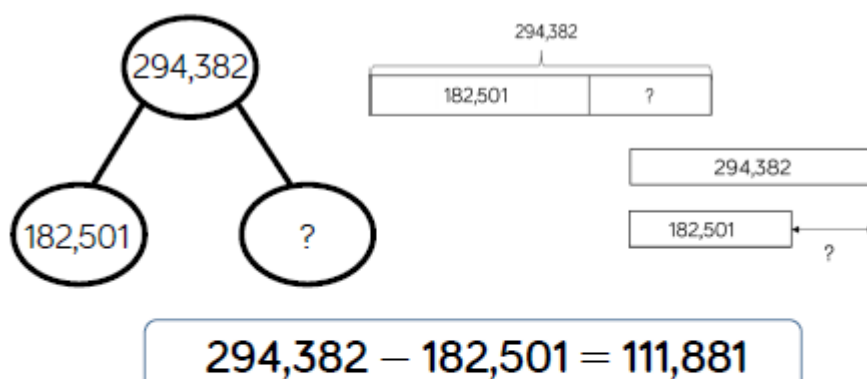
Year 4

Subtract numbers with up to 4-digits



Year 5 and 6

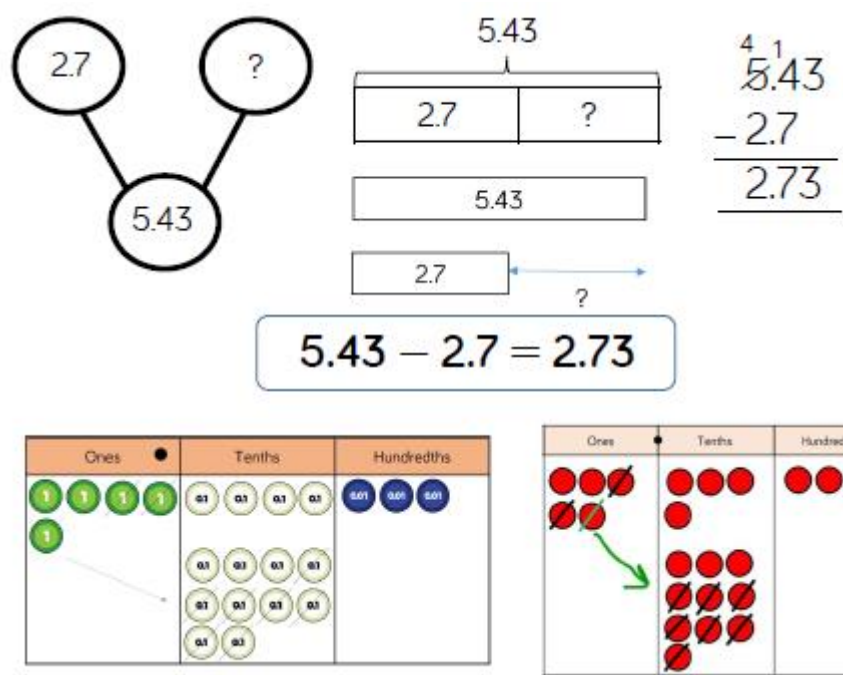
Subtract numbers with more than 4-digits



Year 6 record subtraction in a more formal way instead of using place value counters unless deemed necessary.

Year 5 and 6

Subtract with up to 3 decimal places



Year 6 record subtraction in a more formal way instead of using place value counters unless deemed necessary.