

Year 1

+

Using place value

Count in 1s

e.g. $45 + 1$

Count in 10s

e.g. $45 + 10$ without counting on in 1s

34	35	36
44	45	46
54	55	56

Add 10 to any given 2-digit number

Counting on

Count on in 1s

e.g. $8 + 3$ as 8, 9, 10, 11



Add, putting the larger number first

Count on in 10s

e.g. $45 + 20$ as 45, 55, 65

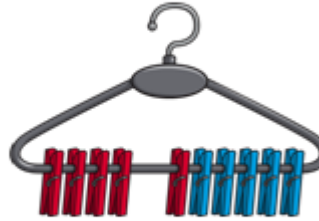
Using number facts

'Story' of 4, 5, 6, 7, 8 and 9

e.g. $7 = 7 + 0$, $6 + 1$, $5 + 2$, $4 + 3$

Number bonds to 10

e.g. $5 + 5$, $6 + 2$, $7 + 3$, $8 + 2$, $9 + 1$, $10 + 0$



$4 + 6 = 10$

Use patterns based on known facts when adding

e.g. $4 + 3 = 7$ so we know $24 + 3$, $44 + 3$, $74 + 3$

- Number bonds ('story' of 5, 6, 7, 8, 9 and 10)
 - Count on in 1s from a given 2-digit number
 - Add two 1-digit numbers
 - Add three 1-digit numbers, spotting doubles or pairs to 10
 - Count on in 10s from any given 2-digit number
 - Add 10 to any given 2-digit number
 - Use number facts to add 1-digit numbers to 2-digit numbers
- e.g. Use $4 + 3$ to work out $24 + 3$, $34 + 3$

- Add by putting the larger number first

Using place value

Count back in 1s

e.g. Know $53 - 1$

Count back in 10s

e.g. Know $53 - 10$ without counting back in 1s

32	33	34
42	43	44
52	53	54

Taking away

Count back in 1s

e.g. $11 - 3$ as 11, 10, 9, 8

e.g. $14 - 3$ as 14, 13, 12, 11



Count back in 10s

e.g. $53 - 20$ as 53, 43, 33

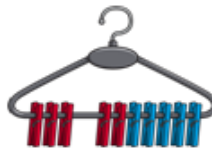
Using number facts

'Story' of 4, 5, 6, 7, 8 and 9

e.g. 'Story' of 7 is $7 - 1 = 6$, $7 - 2 = 5$, $7 - 3 = 4$

Number bonds to 10

e.g. $10 - 1 = 9$, $10 - 2 = 8$, $10 - 3 = 7$



$10 - 7 = 3$

Subtract using patterns of known facts

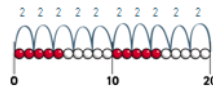
e.g. $7 - 3 = 4$ so we know $27 - 3 = 24$, $47 - 3 = 44$, $77 - 3 = 74$

- Number bonds ('story' of 5, 6, 7, 8, 9 and 10)
 - Count back in 1s from a given 2-digit number
 - Subtract one 1-digit number from another
 - Count back in 10s from any given 2-digit number
 - Subtract 10 from any given 2-digit number
 - Use number facts to subtract 1-digit numbers from 2-digit numbers
- e.g. Use $7 - 2$ to work out $27 - 2$, $37 - 2$

X

Counting in steps ('clever' counting)

Count in 2s

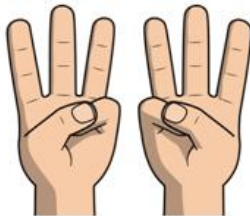


Count in 10s

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

Doubling and halving

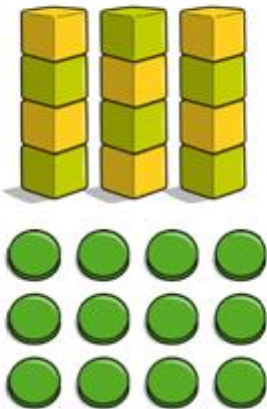
Find doubles to double 5 using fingers
e.g. double 3



Grouping

Begin to use visual and concrete arrays and sets of objects to find the answers to 'three lots of four' or 'two lots of five'

e.g. three lots of four

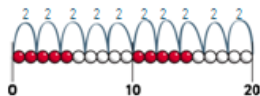


- Begin to count in 2s, 5s and 10s
- Begin to say what three 5s are by counting in 5s, or what four 2s are by counting in 2s, etc.
- Double numbers to 10

÷

Counting in steps ('clever' counting)

Count in 2s



Count in 10s

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

Doubling and halving

Find half of even numbers up to 12, including realising that it is hard to halve an odd number



Grouping

Begin to use visual and concrete arrays and 'sets of' objects to find the answers to questions such as 'How many towers of three can I make with twelve cubes?'

Sharing

Begin to find half of a quantity using sharing
e.g. find half of 16 cubes by giving one each repeatedly to two children

- Begin to count in 2s, 5s and 10s
- Find half of even numbers to 12 and know it is hard to halve odd numbers
- Find half of even numbers by sharing
- Begin to use visual and concrete arrays or 'sets of' to find how many sets of a small number make a larger number