A school's subtraction policy

Begin to count backwards in familiar contexts such as number rhymes or stories



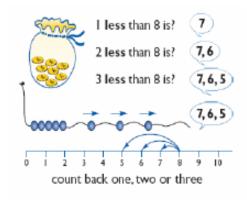


Continue the count back in ones from any given number

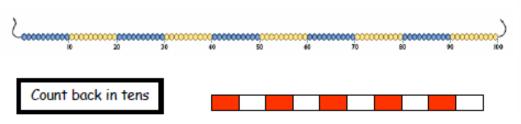
Begin to relate subtraction to 'taking away'

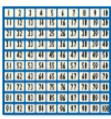


Three teddies take away two teddies leaves one teddy

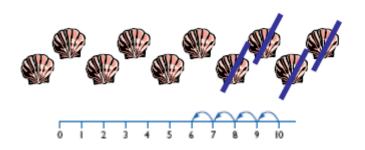


Find one less than a number





Using a structured number line for subtraction



If I take away four shells there are six left

> Count backwards along a number line to 'take away

Begin to use the - and = signs to record mental calculations in a number sentence

Maria had six sweets and she ate four. How many did she have left?



$$6 - 4 = 2$$



6 + ? = 1010 - 6 = ?



?+6=10 10 - 4 = 6

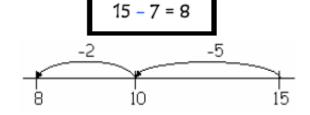
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20 = 12 + 820 - 8 = 12 8 + 12 = 20

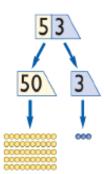
20 - 12 = 8

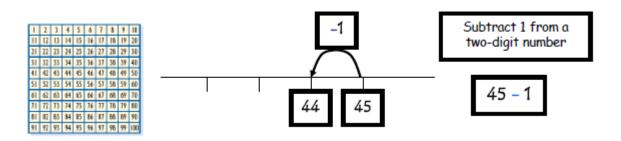
Know by heart subtraction facts for numbers up to 10 and 20

Subtract single digit numbers often bridging through 10



Begin to partition numbers in order to take away

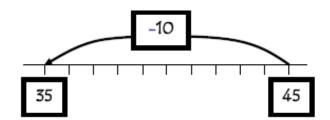


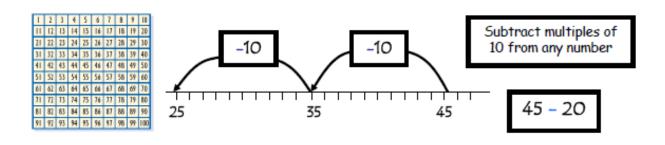


Subtract 10 from a two-digit number

45 - 10

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





Partitioning number to be subtracted with exchanging (links to counting back on number line)

43 - 27 = 16





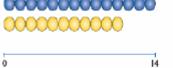
$$43 - 20 = 23$$

Using an 'empty' number line to subtract

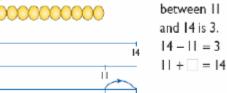




What is the same? What is different?

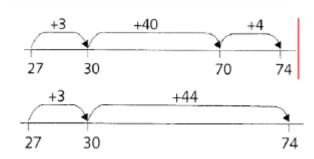


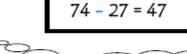
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The difference

Begin to find the difference by counting up from the smallest number. This strategy is useful to use if the difference between 2 numbers is quite small.



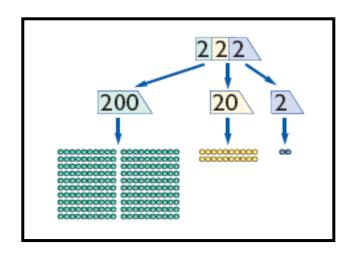


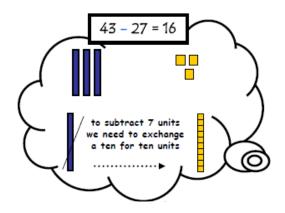
Now what's the answer?

Expanded method

It is important that the children have a good understanding of partitioning using concrete resources and visual images to support calculations. The expanded method enables children to see what happens to numbers in the standard written method. Subtraction starts with the most significant number.

Use expanded written method, starting with most significant number





Standard written method with exchange

The previous stages reinforce what happens to numbers when they are subtracted using more formal written methods. It is important that children have a good understanding of place value.