

Wootton Bassett Infants' School

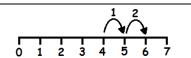
Policy Name: Calculations Policy

Author:	WBIS
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EYFS Number - addition and subtraction add two single digit numbers subtract two single digit numbers aggregation reduction Counters on plates Counters on plates 6 take away 1 leaves 1, 2, 3, 4, 5. 1, 2, 3, 4, 5, 6. Cross out drawn objects to represent what has been Bead strings or bead bars can be used to illustrate taken away: addition including bridging ten by counting on 2 then 3. 3 take away 2 is 1 5 + 3 = 8 12345678 Start with 3 ... 2.1. 678 Count on or back to find the answer Count on to find the answer Practically, for example: augmentation Practically with objects, fingers etc. Group objects on a table then cover some to visualize the 5 + 2 "Put 5 in your head, 6, 7." calculation: Dice... 4 + 3 = 72 less than 4 is 2 Start with 2... 3, 4. 5, 6, 7. Coins On a prepared number line (start with the bigger number)... 2 + 4 = 6 I had 10 pennies. I spent 4 pence. How much do I have

solve problems including doubling Practically double a group of objects to find double of a Sharing objects number by combining then counting the two groups: Double 4 is 8. and Grouping objects is 10

Number - multiplication and division solve problems including halving and sharing One for you. One for me... Is it fair? How many do we each have? 15 shared between 5 is 3. 0000000000000000 Put groups of objects on plates. How many groups of 4 are there in 12 stars?



left? Start with 10... 9, 8, 7, 6,

understand and use vocabulary for addition

add, more, and, make, sum, total, altogether, score, double, one more, two more, ten more... how many more to make...? how many more is... than ...?

is the same as

understand and use vocabulary for subtraction

take (away), leave, how many are left/left over? how many have gone? one less, two less... ten less... how many fewer is... than...? difference between

is the same as

understand and use vocabulary for multiplication

count on (from, to), count back (from, to), count in ones, twos... tens...

is the same as

understand and use vocabulary for division

half, halve, count out, share out, left, left over

is the same as

Year 1

Number - addition and subtraction

represent and use number bonds up to 20

Start with number bonds to 10 then build. Use a wide range of objects (including fingers!) and images to model the bonds, e.g. interlocking cubes.

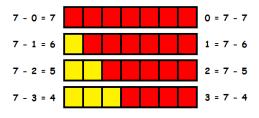


Bead strings or bead bars can be used to illustrate addition including bridging

add one-digit and two-digit numbers to 20, including zero

represent and use number bond facts related subtraction up to 20

Start with number bonds to 10 then build. Use a wide range of objects (including fingers!) and images to model the bonds, e.g. interlocking cubes.



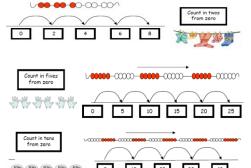
Number - multiplication and division

count in multiples of twos, fives and tens (from number and place value)

Counting using a variety of practical resources Counting in 2s e.g. counting socks, shoes, animals in the ark... Counting in 10s e.g. hundred square, towers of cubes...

	11	12	13	14	15	16	17	18	19
	21	22	23	24	25	26	27	28	29
	31	32	33	34	35	36	37	38	39
	41	42	43	44	45	46	47	48	49
	51	52	63	54	66	56	67	58	B9
$\wedge \wedge \wedge \wedge$	61	62	63	64	65	66	67	68	69
	71	72	73	74	75	76	77	78	79
	81	82	83	84	85	36	87	88	89
	91	92	93	94	95	96	97	98	99





Count in tens	0000 0000 -0	XXXXX	-00000	-00000	0-0000000000
_			\searrow	\searrow	
(10p) (10p) (10p) (10p) (10p)	0	10	20	30	40

Use rhymes, songs and stories involving counting on and counting back in ones, twos, fives and tens. Use 2p, 5p and 10p coins.

double numbers and quantities

Practically double a group of objects and/or quantities to find double of a number by combining then counting the two groups.

group and share small quantities

Practical activities involving sharing,

Distributing cards when playing a game, putting objects onto plates, into cups, hoops etc.

Sorting objects into 2s / 3s/ 4s etc How many pairs of socks are there?









There are 12 crocus bulbs. Plant 3 in each pot. How many pots are there? Jo has 12 Lego wheels. How many cars can she make?

Sharing pictures /objects

12 children get into teams of 4 to play a game. How many teams are there?







Sweets are shared between 2 people. How many do they have each?

On a hundred square... 3 + 4

ten by counting on 2 then 3.

8 + 5



On a prepared number line... 7 + 4 = 11

18 19 22 23 24 | 25 | 26 | 27 28 29

subtract one-digit and two-digit numbers to 20, including zero

Number lines (numbered and unnumbered, prepared and child constructed)

Practically with objects, fingers etc.

5 - 2 "Put 5 in your head, 4, 3."

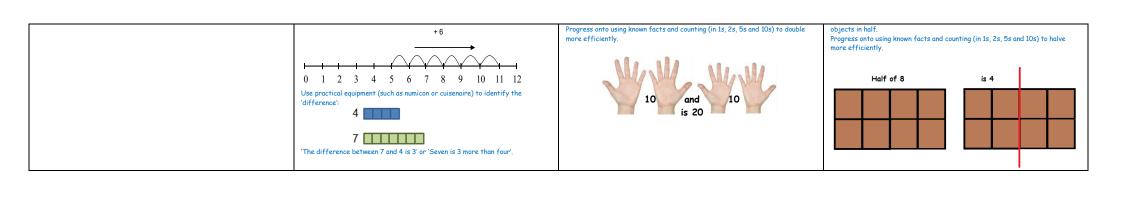
Finding the difference

Hundred Sauare 17 - 3

Number lines (numbered and unnumbered, prepared and child constructed)

half numbers and quantities

Practically halve objects and/or qualities by sharing them out into two piles and then counting the number of objects in each pile, or cutting/folding pictures of



read, write and interpret mathematical statements involving addition (+) and equals (=) signs

It is important to that children have a clear understanding of the concept of equality, before using the '=' sign, Calculations should be on either side of the '=' to that children don't misunderstand '=' as to mean 'the answer'.

15 + 2 = 17 15 = 3 + 12

read, write and interpret mathematical statements involving and subtraction (-)

It is important to that children have a clear understanding of the concept of equality, before using the '=' sign, Calculations should be on either side of the '=' to that children don't misunderstand '=' as to mean 'the answer'.

15 - 2 = 13 15 = 18 - 3

make connections between arrays and number patterns

Arrays



Looking at columns 2+2+2 3 groups of 2

Looking at rows 3 + 3 2 groups of 3

Arrays and repeated addition



make connections between arrays and number patterns







There are 4 groups of 3 in 12. 12 shared between 4 is 3.

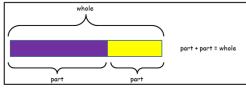
solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 =

To support this, when solving calculations, missing numbers should be placed in all possible places:

3 + 4 = [3 + □ = 7 7 = 🗆 + 4 4 + 🗆 = 7 7 = 3 + 🗆 $\square + \nabla = 7$ 7 = D + V

Use all the models and images mentioned above. Discuss which is most effective and why.

Singapore Bar Method





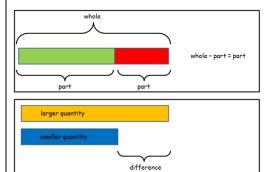
solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 =

To support this, when solving calculations, missing numbers should be placed in all possible places:

16 - 9 = 🗆	□ = 16 -
16 - 🗆 = 7	7 = 🗆 -
□ - 9 = 7	7 = 16 -
□ - ∇ = 7	7 = 🗆 - 🗸

Use all the models and images mentioned above. Discuss which is most effective

Singapore Bar Method

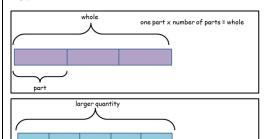


solve one-step problems involving multiplication, by calculating the answer using concrete objects, pictorial representations and arrays with the support

Use all the models and images mentioned above. Discuss which is most effective

Singapore Bar Method

smaller quantity

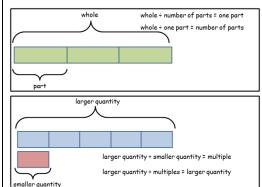


smaller quantity x multiples = larger quantity

solve one-step problems involving division, by calculating the answer using concrete objects, pictorial representations and arrays with the support

Use all the models and images mentioned above. Discuss which is most effective

Singapore Bar Method



understand and use vocabulary for addition, e.g. put together, add, altogether, total and more than

+, add, more, plus, make, total, altogether, score, double, near double, one more, two more... ten more.

= equals, sign, is the same as

How many more to make...? How many more is... than...? How much more is...? Repetition of facts with different vocabulary: "What is 2 add 5?" "What is 2 more than 5?" "What is 2 plus 5?" What is the total of 2 and 5?" etc.

understand and use vocabulary for addition and subtraction, e.g. take away, distance between, difference between and less than

larger quantity - smaller quantity = difference

subtract, take (away), minus, leave, how many are left/left over? how many have gone? one less, two less, ten less... how many fewer is... than ...? how much less is...? difference between, half, halve, counting up/back...

= equals, sign, is the same as

Repetition of facts with different vocabulary: "What is 7 take away 3?" "What is 3 less than 7?" "What is 7 subtract 3?" "What is the difference between 3 and 7?" etc.

use a variety of language to describe multiplication

count on (from, to), count back (from, to), count in ones, twos, threes, fours, fives... count in tens, lots of, groups of, x, times, multiply, multiplied by, multiple of, once, twice, three times... ten times... times as (big, long, wide... and so on), repeated addition, array, row, column, double, halve

= equals, sign, is the same as

use a variety of language to describe division

Array, row, column, halve, share, share equally, one each, two each, three each... group in pairs, threes... tens, equal groups of

÷, divide, divided by, divided into, left, left over

= equals, sign, is the same as

