

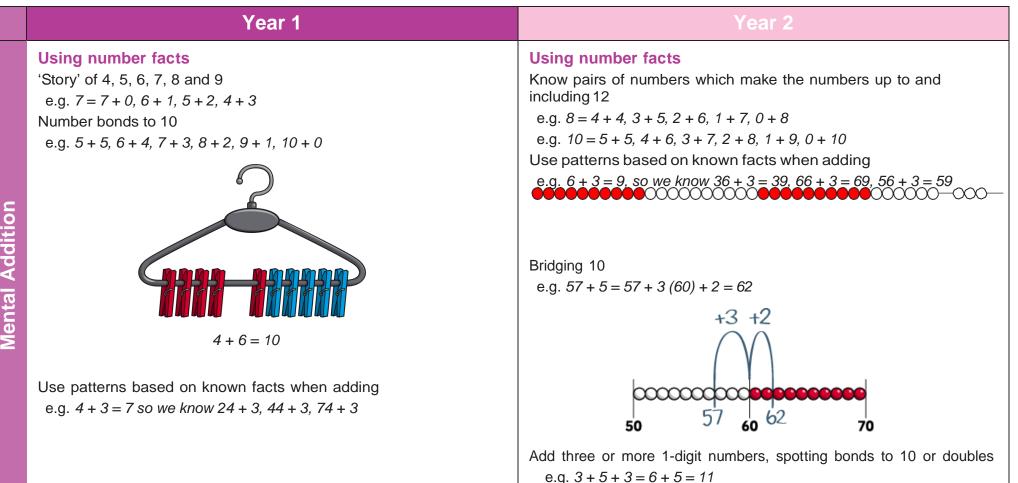


Year 1 **Using place value Using place value** Count in 1s Know 1 more or 10 more than any number e.g. 45 + 1 e.g. 1 more than 67 Count in 10s e.g. 10 more than 85 e.g. 45 + 10 without counting on in 1s Partitioning e.g. 55 + 37 as 50 + 30 and 5 + 7, then finally combine the two totals: 80 + 12 34 35 36 30 = 50 + 80 44 46 **Mental Addition** 54 55 56 **Counting on** Add 10 to any given 2-digit number Add 10 and multiples of 10 to a given 1- or 2-digit number **Counting on** e.g. 76 + 20 as 76, 86, 96 or in one hop: 76 + 20 = 96 Count on in 1s Add two 2-digit numbers by counting on in 10s, then in 1s 8, 9, 10, 11 ... e.g. 8 + 3 as 8, 9, 10, 11 e.g. 55 + 37 as 55 + 30 (85) + 7 = 92 +10+10+10 +7 55 65 75 **8**5 92 60 90 50 70 80 100 Add near multiples of 10 e.g. 46 + 19 Add, putting the larger number first e.g. 63 + 21 Count on in 10s e.g. 45 + 20 as 45, 55, 65



Overview of Strategies and Methods – Addition





e.g. 8 + 2 + 4 = 10 + 4 = 14

ALWAYS LEARNING

PEARSON



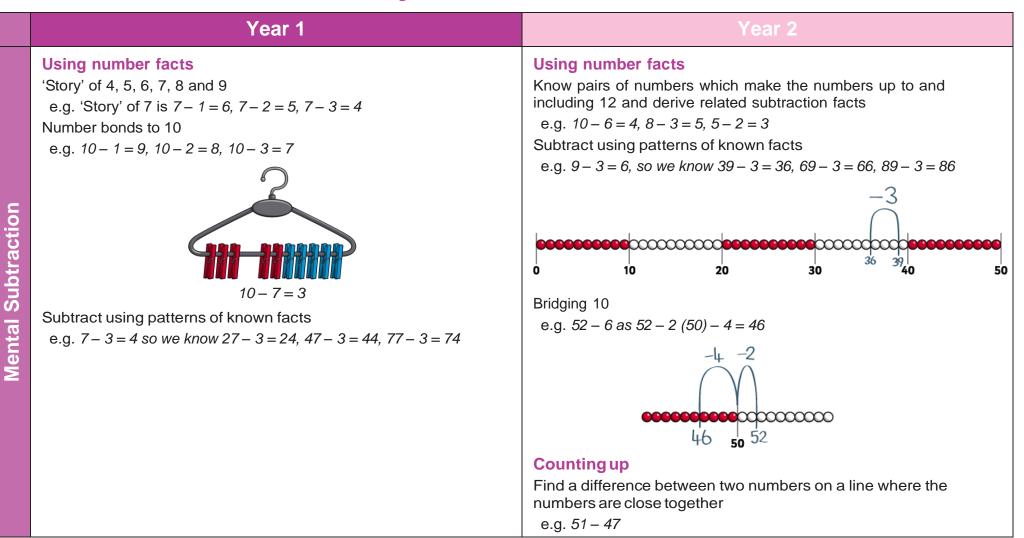
Overview of Strategies and Methods – Subtraction abacus Year 1 **Using place value** Using place value Know 1 less or 10 less than any number Count back in 1s e.g. Know 53-1 e.g. 1 less than 74 Count back in 10s e.g. 10 less than 82 e.g. Know 53 - 10 without counting back in 1s Partitioning e.g. 55 - 32 as 50 - 30 and 5 - 2 and combine the answers: 20 + 332 33 34 30 42 43 44 **Mental Subtraction** 54 52 Taking away Taking away Count back in 1s Subtract 10 and multiples of 10 e.g. 11 – 3 as 11, 10, 9, 8 e.g. 76 – 20 as 76, 66, 56 or in one hop: 76 – 20 = 56 e.g. 14 - 3 as 14, 13, 12, 11 Subtract two 2-digit numbers by counting back in 10s, then in 1s e.g. 67 - 34 as 67 subtract 30 (37) then count back 4 (33) 14, 13, 12, 1 -30 37 33 30 40 50 60 70 Subtract near multiples of 10 e.g. 74–21 e.g. 57 - 19 Count back in 10s e.g. 53 – 20 as 53, 43, 33

ALWAYS LEARNING

PEARSON



Overview of Strategies and Methods – Subtraction



ALWAYS LEARNING





Overview of Strategies and Methods – Multiplication



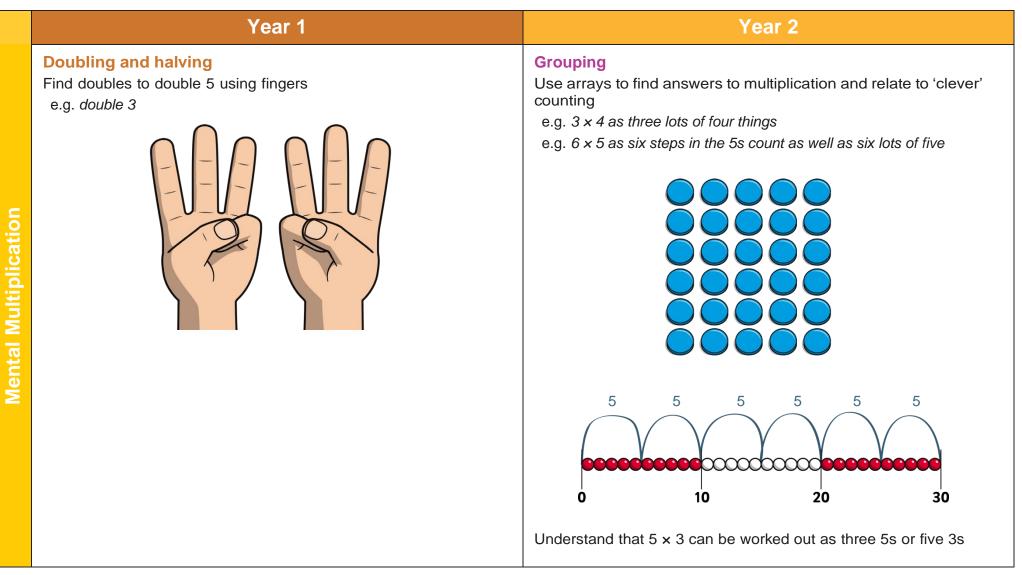
Year 1 Year 2 Counting in steps ('clever' counting) Counting in steps ('clever' counting) Count in 2s Count in 2s, 5s and 10s 2 2 2 2 2 2 2 2 Count in 10s Begin to count in 3s **Doubling and halving** Begin to know doubles of multiples of 5 to 100 e.g. double 35 is 70 **000000000000000000000000**00000 ń Begin to double 2-digit numbers less than 50 with 1s digits of 1, 2, 3, 4 or 5

ALWAYS LEARNING

PEARSON



Overview of Strategies and Methods – Multiplication





Overview of Strategies and Methods – Multiplication



PEARSON

Year 1 Year 2 Grouping **Using number facts** 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' Know doubles to double 20 e.g. double 7 is 14 e.g. three lots of four **Mental Multiplication** Start learning x2, x5, x10 tables, relating these to 'clever' counting in 2s, 5s, and 10s e.g. 5 × 10 = 50, and five steps in the 10s count = 10, 20, 30, 40, 50

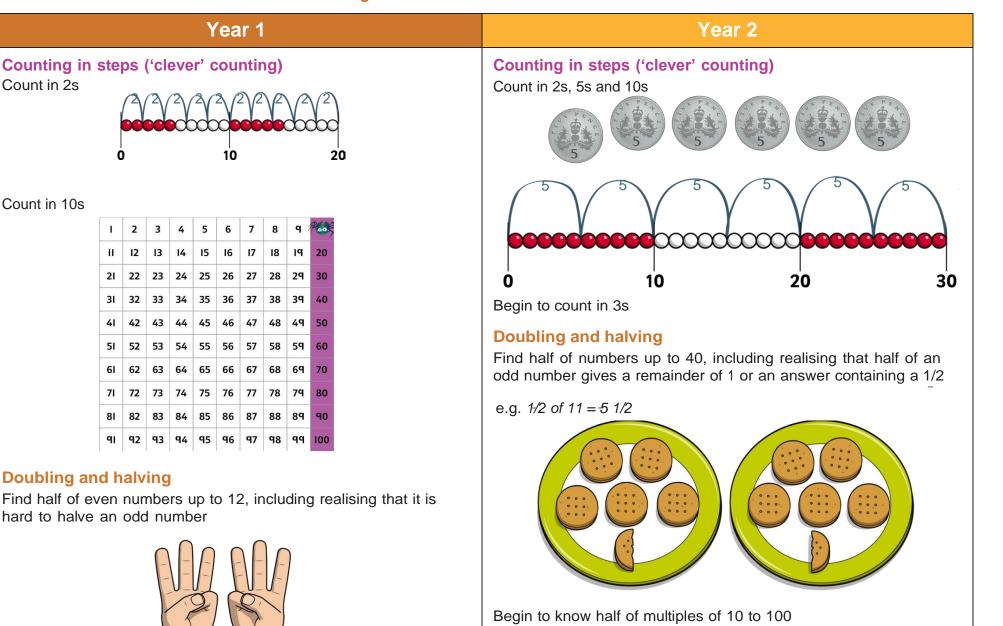




Count in 2s

0

Overview of Strategies and Methods – Division



e.g. half of 70 is 35

PEARSON

Mental Division

Count in 10s										
	1	2	3	4	5	6	7	8	q	Part -
	п	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

10

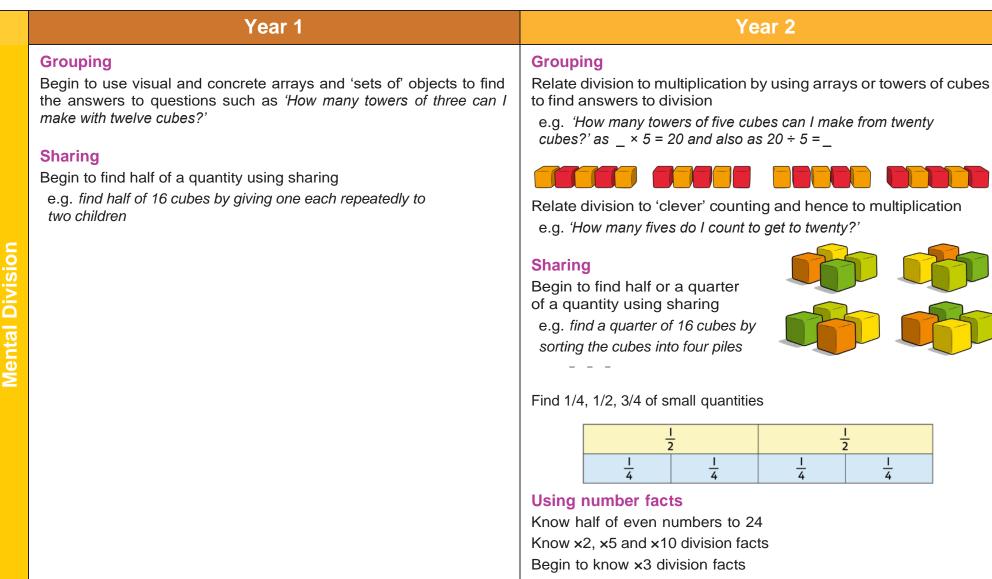
Doubling and halving

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





Overview of Strategies and Methods – Division



PFARSON

