Year 3							
	Block 1	Block 2	Block 3				
Calculation content	 ADDITION AND SUBTRACTION (UNIT 1) + and - facts for 100 using multiples of 5 and 10 Add a 3-digit number and ones Subtract ones from a three-digit number (exchanging) Add a three-digit number and tens; subtract tens from a three- digit number Adding multiples of ten beyond one hundred Subtract multiples of ten Add numbers with up to three- digits (without and with exchanging) Subtract numbers with up to three-digits (without and with exchanging) 	 MONEY (UNIT 1) Making £1, £2 and £5 Adding 2 two-digit amounts (eg 35p + 25p = 30p + 20p + 5p +5p) Adding pounds and pence, including bridging through £1 (eg £4 and 70p + £3 and 60p) ADDITION AND SUBTRACTION (UNIT 2) + and - facts for 100 and related facts Add a three-digit number to a three-digit number (exchanging ones to tens and tens to hundreds) Subtract a three-digit number (exchanging hundreds to tens and tens to tens and tens to ones) FRACTIONS (UNIT 2) Add and subtract fractions with the same denominator Subtract from one whole 	 CALCULATION UNIT Scaling additive facts by ten Add a three-digit number to a three-digit number (r) Subtract a three-digit number (r) MONEY (UNIT 2) Subtracting amounts of money (empty number line and subtracting by partitioning the minuend) 				



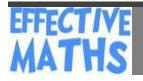


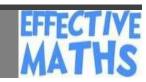
Year 3								
	Block 1	Block 2	Block 3					
Strategies/ methods	+ and - facts for 100 using multiples of 5 and 10 Teaching needs to stress how to avoid common errors when calculating complements to 100, eg: 65 + 45 = 110 instead of 100. See notes in lesson. Add a 3-digit number and ones Making the next ten, eg: 167 + 9 = 170 + 3 + 6. Subtract ones from a three-digit <u>number</u> Making the previous ten, eg: 167 - 9 = 167 - 7 - 2. Add a three-digit number and tens; subtract tens from a three-digit <u>number</u> For addition: partition the three-digit number into hundreds and tens and ones, eg: 258 + 30 = 250 + 8 + 30 = 280 + 8. For subtraction: partition the minuend, eg: 258 - 30 = 58 - 30 + 200	Making £1, £2 and £5Representations of coins and moneynumber lines support calculatingamounts to £1, £2 and £5.Adding 2 two-digit amountsBoth amounts are partitioned intomultiples of ten pence and multiplesof one pence, eg: $35p + 25p = 30p + 5p + 20p + 5p$ Adding pounds and pence, includingbridging through £1The core strategy is to add thepounds, then add the pence, thencombine, eg:£4 and 70p + £3 and 60p =£7 and 130p =£8 and 30pNB Remember that children in Year 3have not formally encountereddecimal notation. Pounds and penceare presented as either £8 and 30p or£8.30 - but the decimal is referred toas a separator.	Scaling additive facts by ten Use known facts, eg: 5 - 2 = 3 so 5 tens - 3 tens = 2 tens. Add a three-digit number to a three- digit number Partitioning to expand second addend; partitioning both addends; compensation. Subtract a three-digit number from a three-digit number Counting on using empty number line; compensation. Subtracting amounts of money Empty number line and subtracting by partitioning the minuend.					





Year 3							
	Block 1	Block 2	Block 3				
Strategies/ methods	Adding multiples of ten Making the next hundred, eg: 80 + 60 = 80 + 20 + 40.Subtract multiples of ten Making the previous hundred, eg: 	 <u>+ and - facts for 100 and related facts</u> For addition: partitioning both addends into ten and ones and combining parts, eg: 73 + 27 = 70 + 3 + 20 + 7 = 90 + 10. For subtraction: partitioning the subtrahend, eg: 100 - 68 = 100 - 60 - 8; counting on with number line. <u>Add a three-digit number to a three-digit number</u> Column method (exchanging ones to tens and tens to hundreds). <u>Subtract a three-digit number from a three-digit number</u> Column method (exchanging hundreds to tens and tens to ones).					

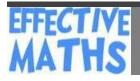




YEAR 3

EFFECTIVE MATHS

Year 3							
	Block 1	Block 2 Block 3					
Strategies/ methods		Add and subtract fractions with the same denominator Teaching uses dual-naming. For example: $\frac{2}{6} + \frac{3}{6} =$ First say: 					



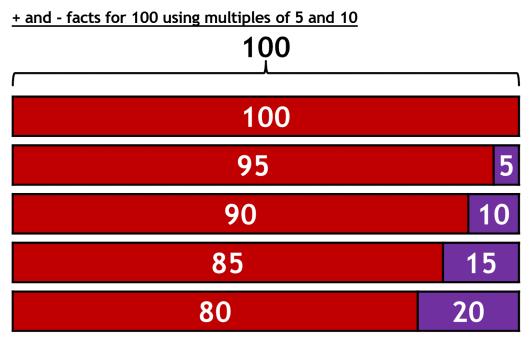


15

10

5

Year 3 - Block 1



bar model supports understanding that

one addend decreases by 5 and

the other increases by 5

partitioning both addends: combine the tens; combine the ones; combine the results

╋

85

5

90

80





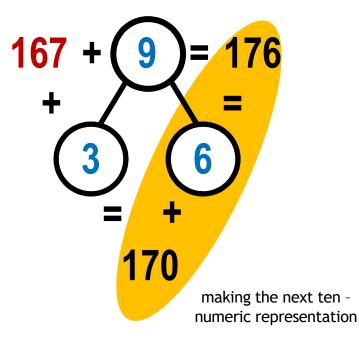


Year 3 - Block 1

167 + 9 = 176

Add a 3-digit number and ones

101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200



making the next ten -100 square representation





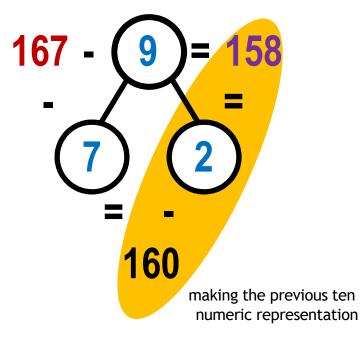


Year 3 - Block 1

167 - 9 = 158

Subtract ones from a three-digit number

101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200

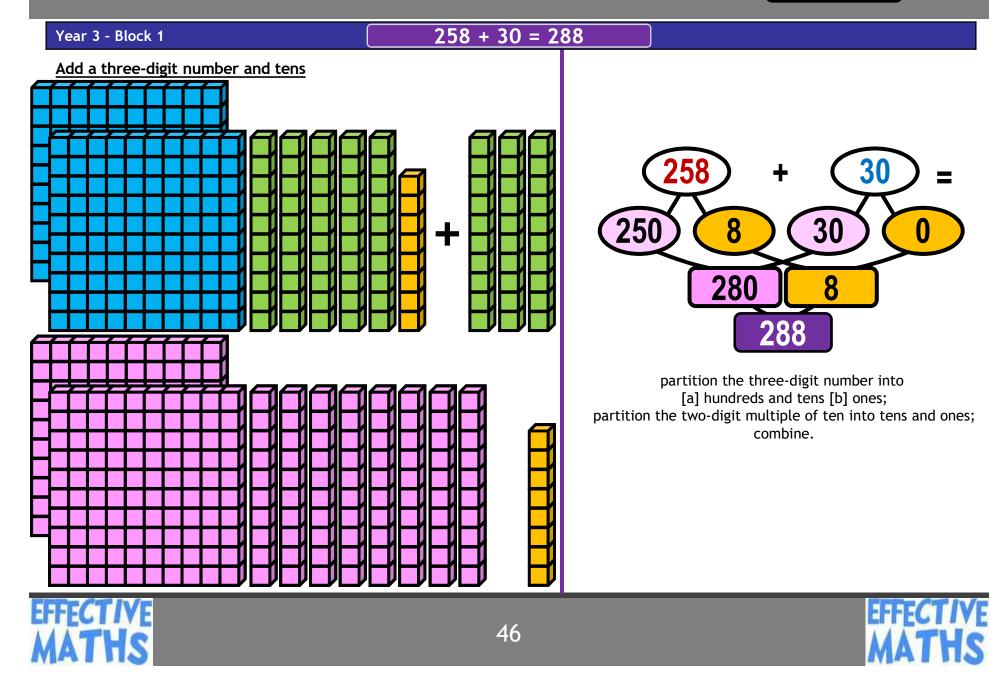


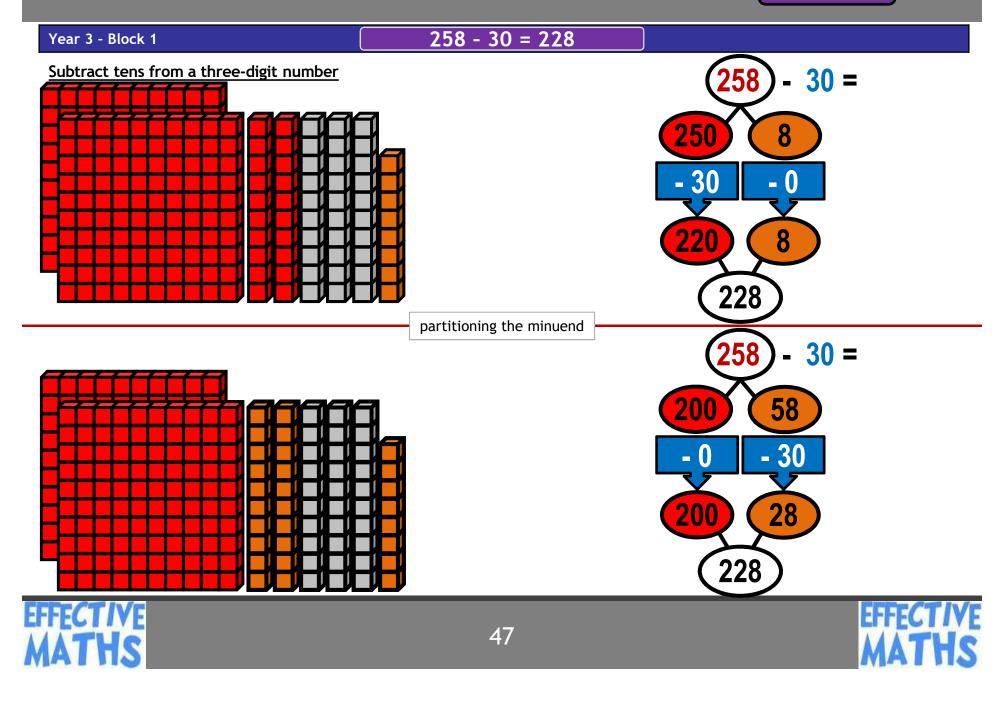
EFFECT IVE MATHS

making the previous ten - 100 square representation









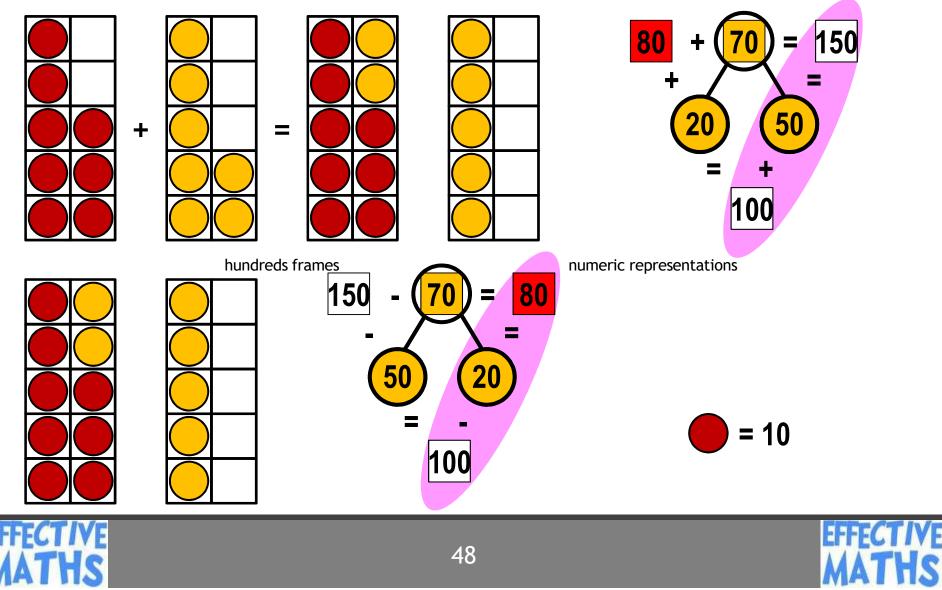
YEAR 3

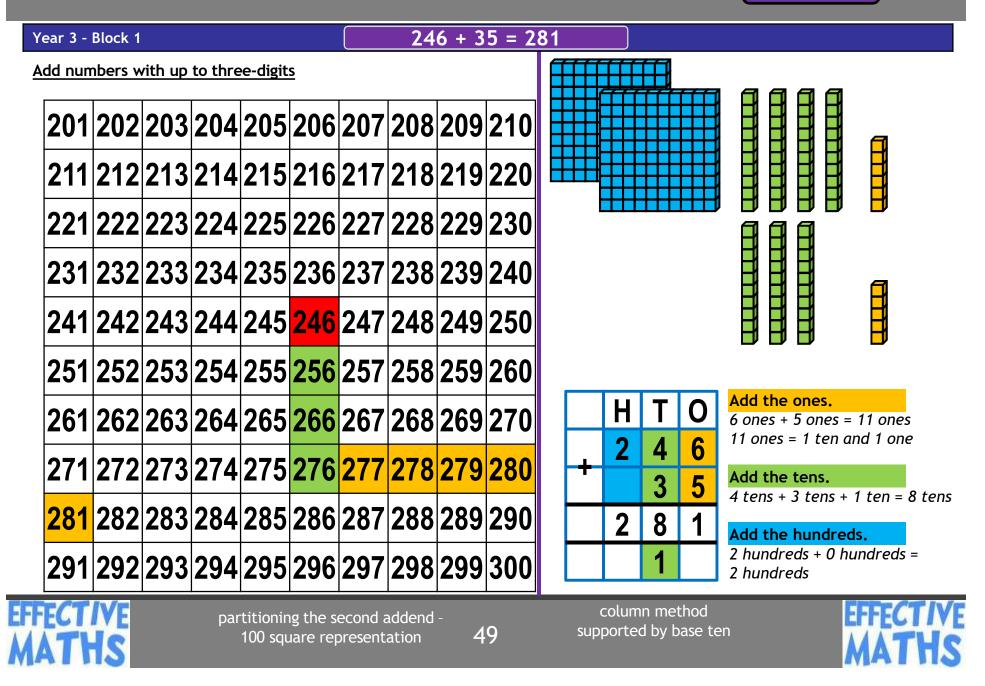
18

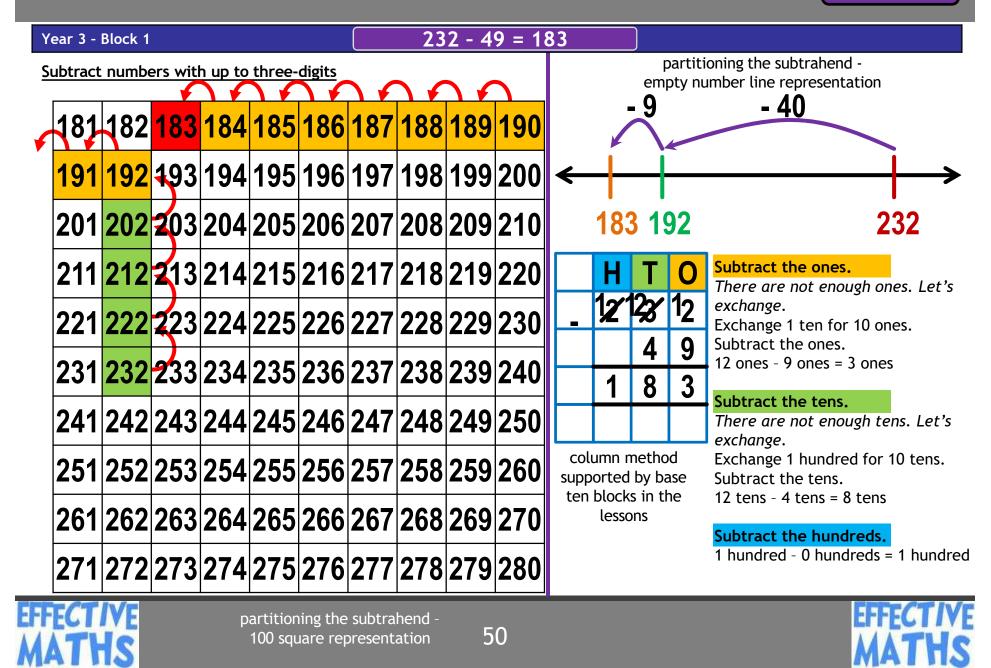
Year 3 - Block 1

80 + 70 = 150 ● 150 - 70 = 80

Add multiples of ten bridging hundreds/ subtract multiples of ten bridging hundreds





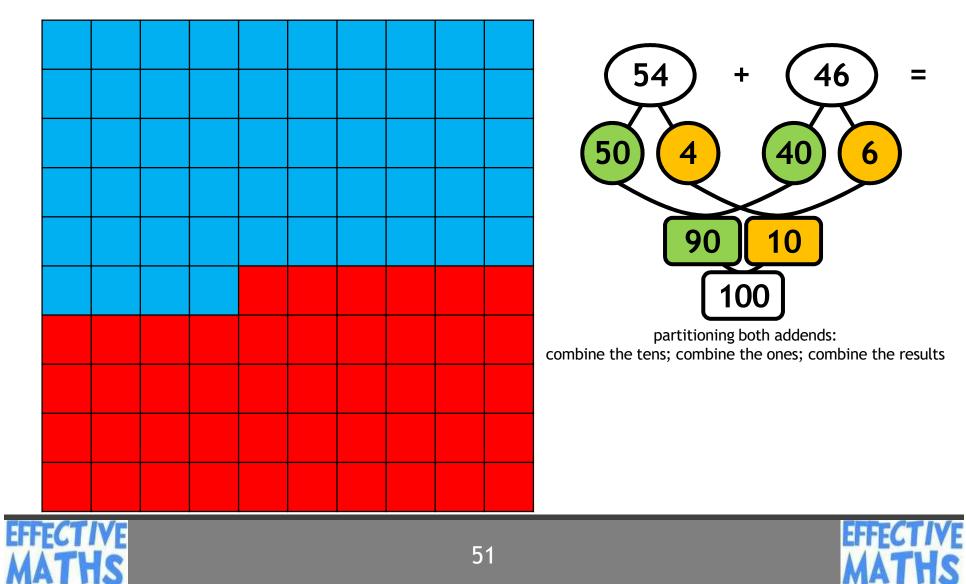


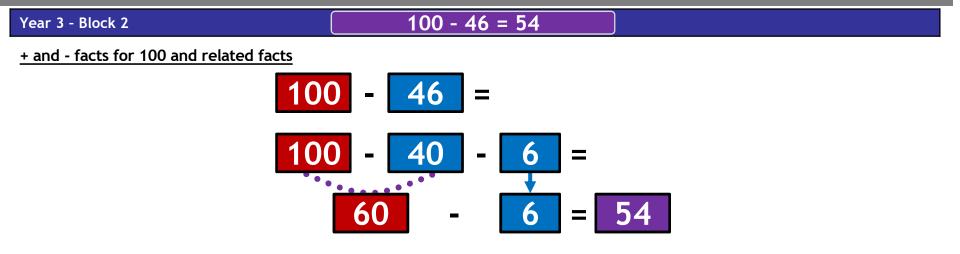
YEAR 3

Year 3 - Block 2

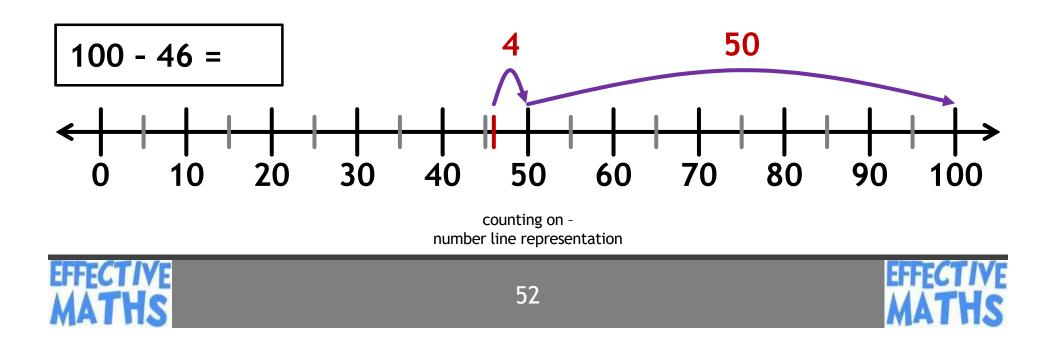
54 + 46 = 100

+ and - facts for 100 and related facts





partitioning the subtrahend

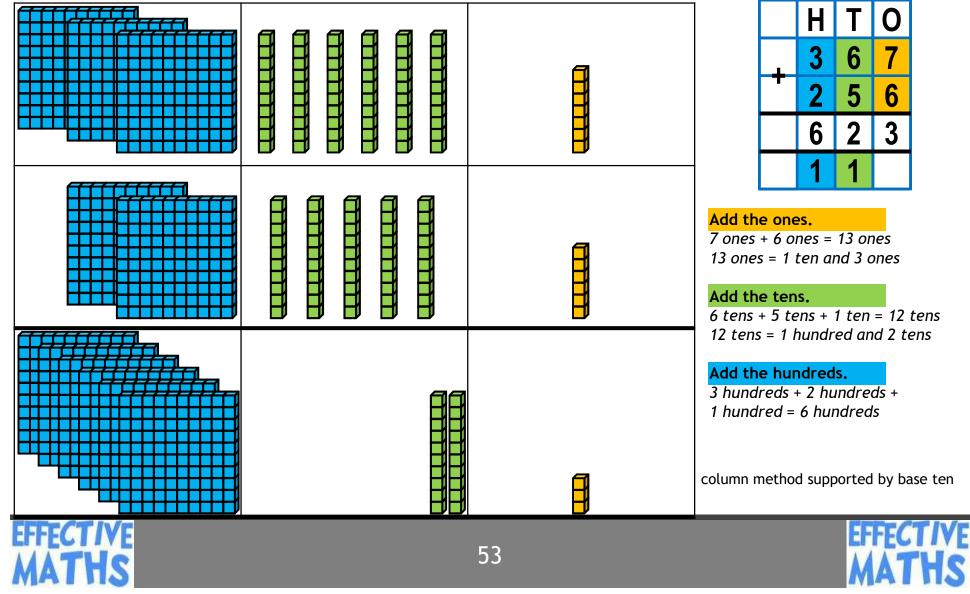


YEAR 3

Year 3 - Block 2

367 + 256 = 623

Add a three-digit number to a three-digit number

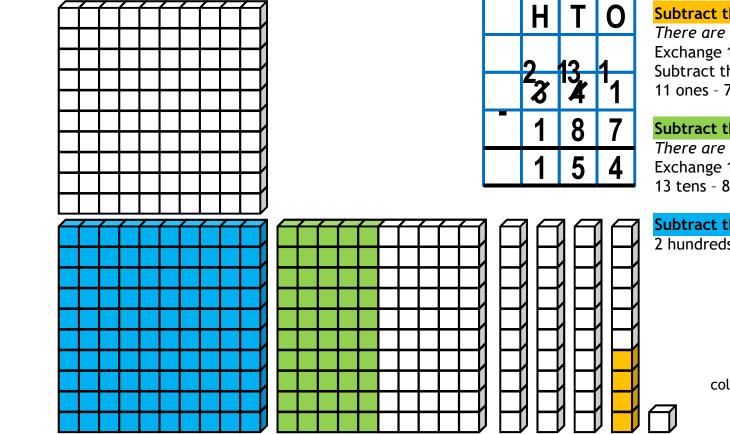


YEAR 3

Year 3 - Block 2

341 - 187 = 154

Subtract a three-digit number from a three-digit number



Subtract the ones.

There are not enough ones. Let's exchange. Exchange 1 ten for 10 ones. Subtract the ones. 11 ones -7 ones = 4 ones

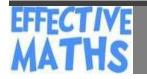
Subtract the tens.

There are not enough tens. Let's exchange. Exchange 1 hundred for 10 tens. 13 tens - 8 tens = 5 tens

Subtract the hundreds.

2 hundreds - 1 hundred = 1 hundred

column method supported by base ten





YEAR 3

Year 3 - Block 2

303 - 175 = 128

0

13

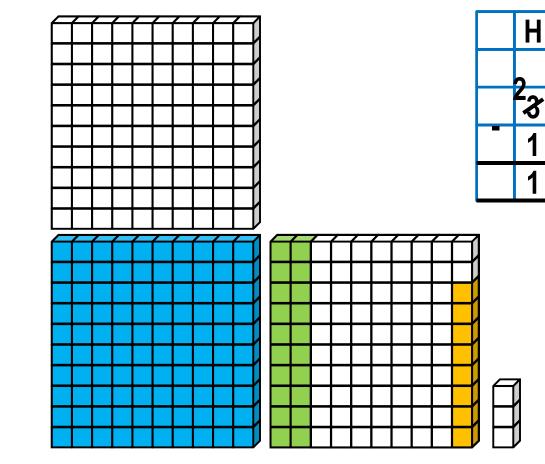
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8

9

Y

Subtract a three-digit number from a three-digit number



Subtract the ones.

There are not enough ones. Let's exchange. Exchange 1 hundred for 10 tens. Exchange 1 ten for 10 ones. Subtract the ones. 13 ones - 5 ones = 8 ones

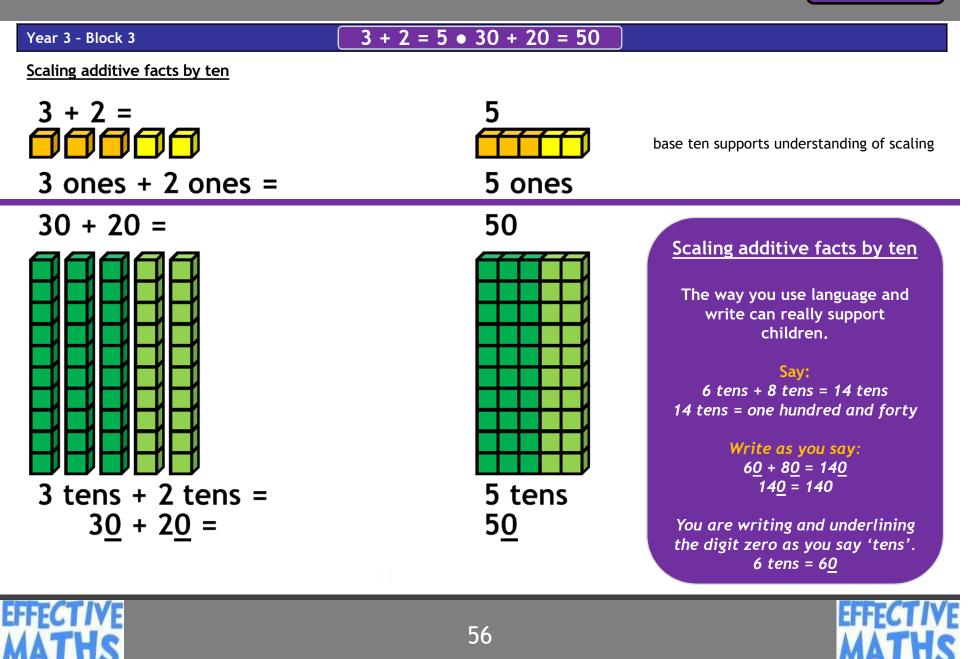
Subtract the tens. 9 tens - 7 tens = 2 tens

Subtract the hundreds. 2 hundreds - 1 hundred = 1 hundred

column method supported by base ten







YEAR 3

Year 3 - Block 3

 $5 - 2 = 3 \bullet 50 - 20 = 30$

Scaling additive facts by ten

5 - 2 = 35 ones - 2 ones = 3 ones50 - 20 = 305 tens - 2 tens = 3 tens5<u>0</u> - 2<u>0</u> = 30

base ten supports understanding of scaling



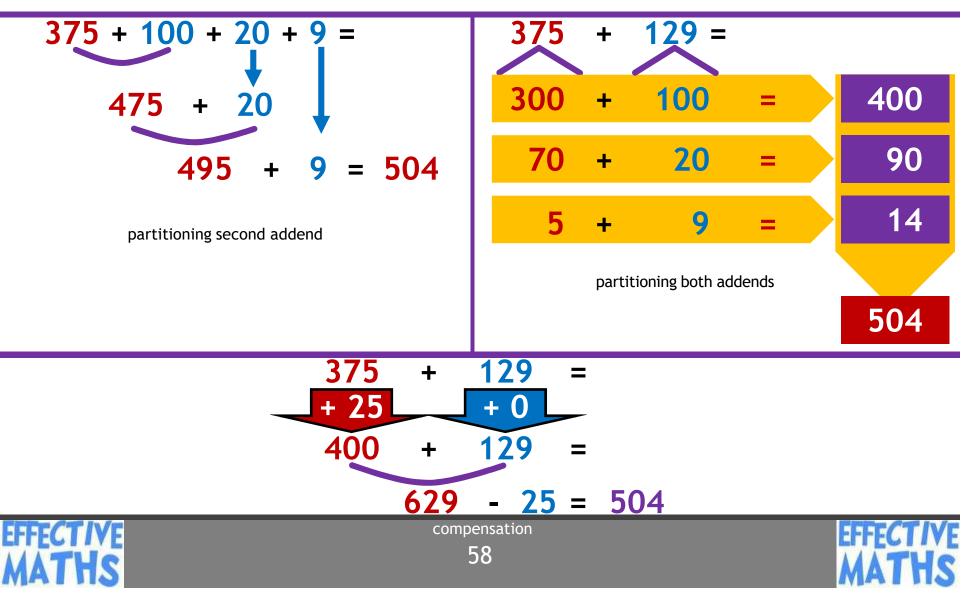


YEAR 3

Year 3 - Block 3

375 + 129 = 504

Add a three-digit number to a three-digit number



YEAR 3

Year 3 - Block 3

608 - 489 = 119

Subtract a three-digit number from a three-digit number

