More Addition and Subtraction Add/subtract multiples and near-multiples of 10, 100, 1000 Objectives

Tuesday

Use place value to add multiples of 1, 10, 100 to 2-digit and 3-digit numbers Use place value to add multiples of 1, 10, 100, 1000 to numbers with up to 4 digits

Wednesday Add near multiples of 10 and 100 to two and three-digit numbers Add near multiples of 1, 10, 100, 1000 to numbers with up to 4 digits

Thursday

Use place value to subtract multiples of 1, 10, 100 from 2-digit and 3-digit numbers

Use place value to subtract multiples of 1, 10, 100, 1000 from numbers with up to 4 digits

Friday

Subtract near multiples of 10 and 100 from 2-digit and 3-digit numbers Subtract near multiples of 1, 10 and 100 from numbers with up to 4 digits © hamilton-trust.org.uk 1

More Addition and Subtraction Add/subtract multiples and near-multiples of 10, 100, 1000

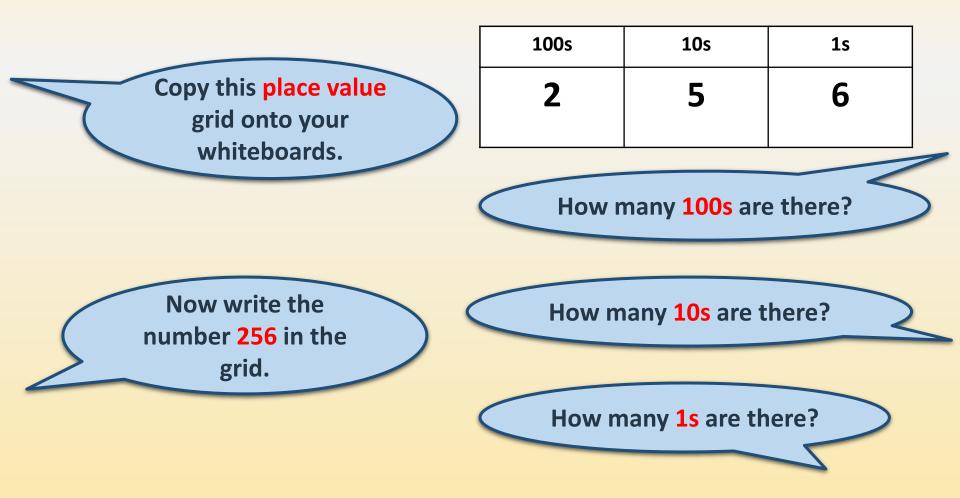
Objectives

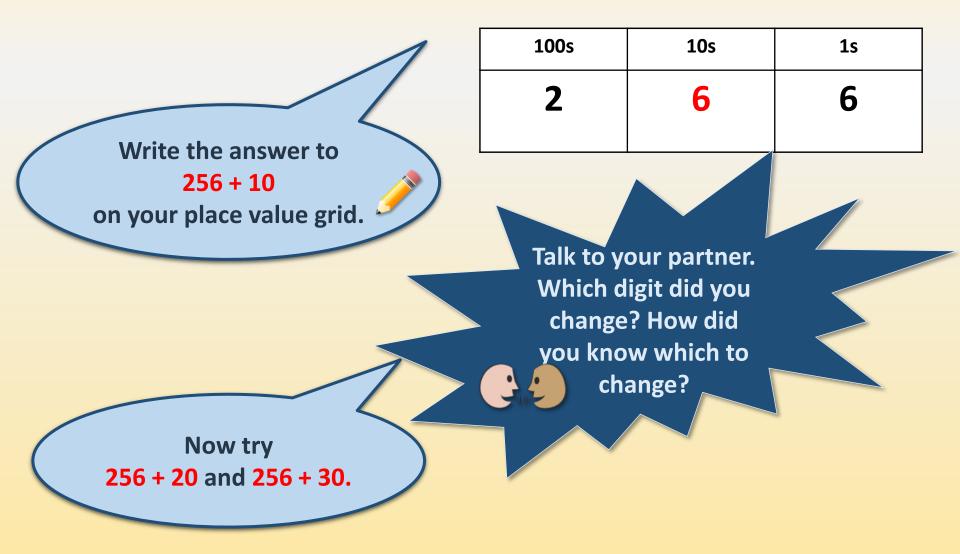
Tuesday

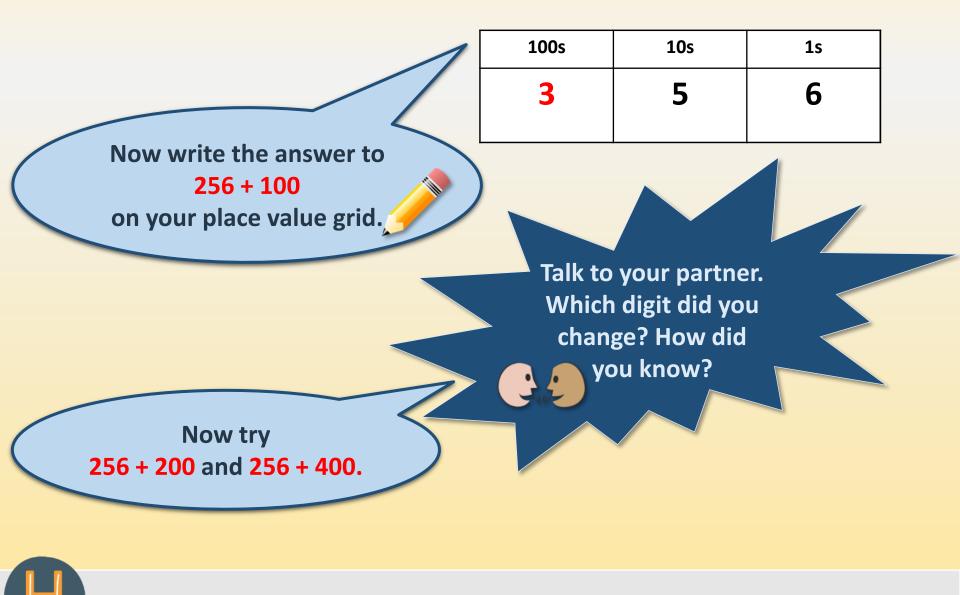
Use place value to add multiples of 1, 10, 100 to 2-digit and 3-digit

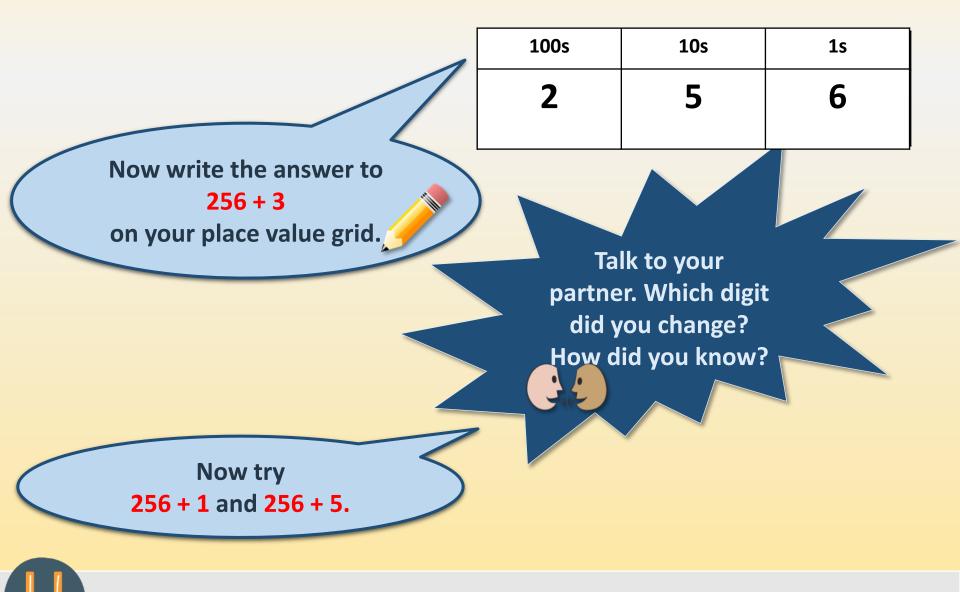
numbers

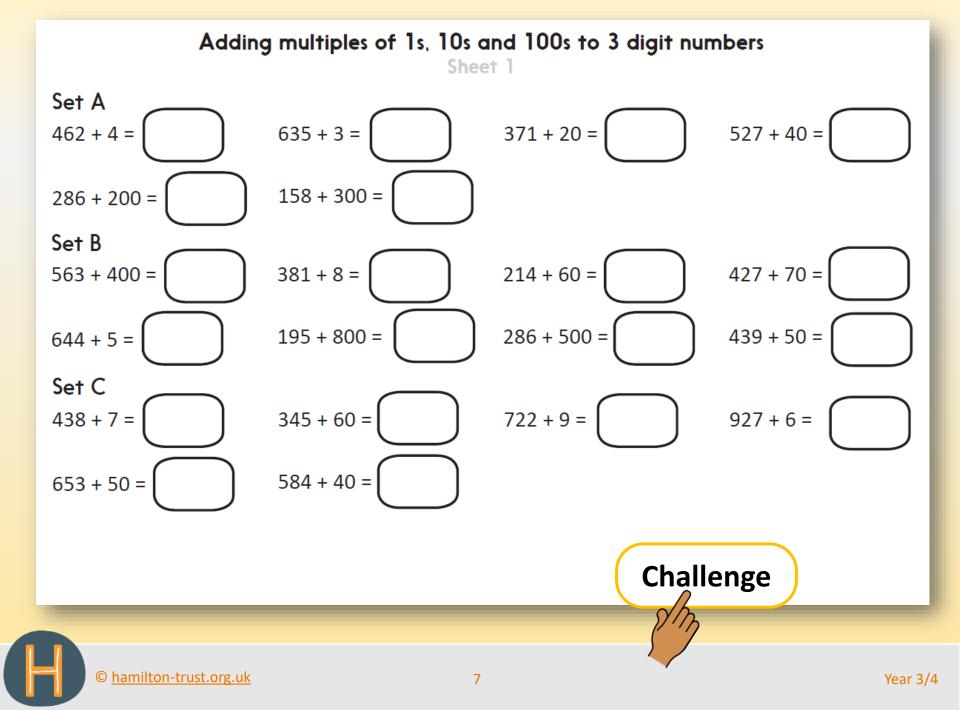
Use place value to add multiples of 1, 10, 100, 1000 to numbers with up to 4 digits



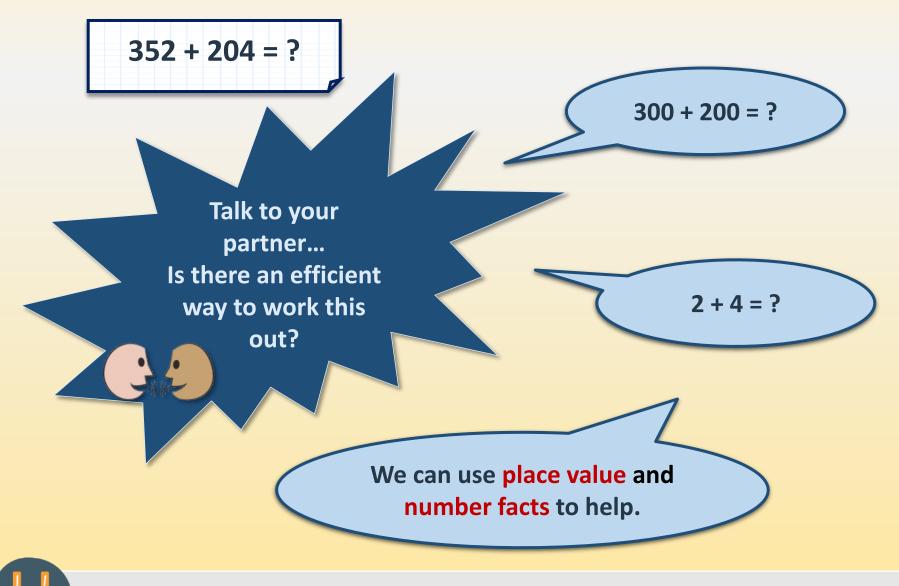






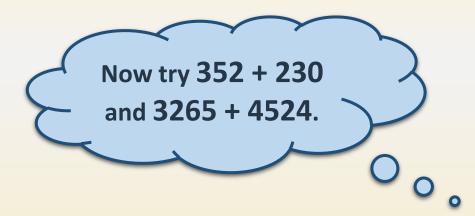


Day 1: Use place value to add multiples of 1, 10, 100, 1000 to numbers with up to 4 digits



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Day 1: Use place value to add multiples of 1, 10, 100, 1000 to numbers with up to 4 digits



What number facts and knowledge of place value helped with those? Remember you can always write the numbers on a 3 or 4-digit place value grid to check.

Using place value to add

Sheet 2

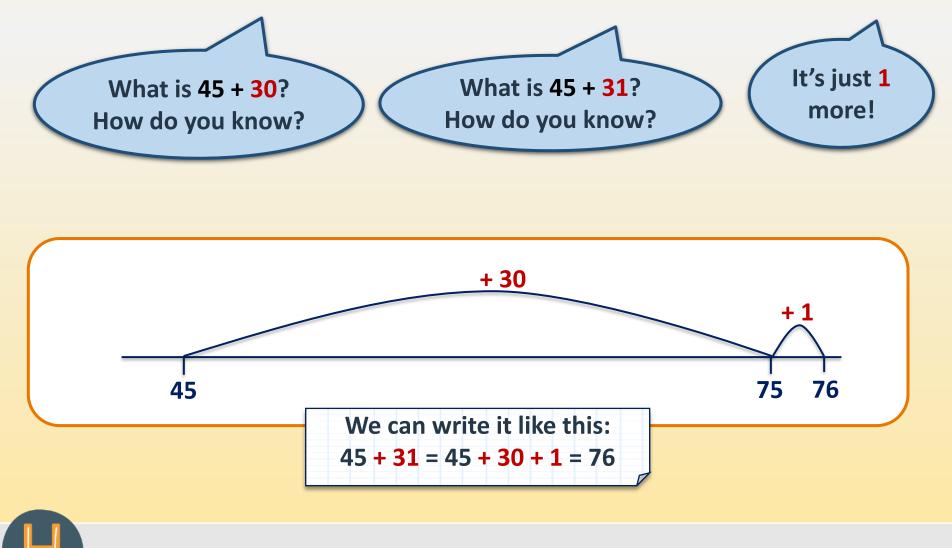
Set A	Set B	Set C
1. 500 + 40	1. 5000 + 40	1. 7044 + 430
2. 350 + 7	2. 7040 + 205	2. 2600 + 307
3. 600 + 7	3. 430 + 2006	3. 3030 + 3303
4. 400 + 25	4. 4358 + 101	4. 4545 + 5454
5. 431 + 256	5. 2372 + 220	5. 4365 + 225
6. 507 + 80	6. 6930 + 34	6. 930 + 80
7. 330 + 45	7. 3654 + 2005	7. 5277 + 2141
8. 430 + 340	8. 3000 + 201	8. 2800 + 3600

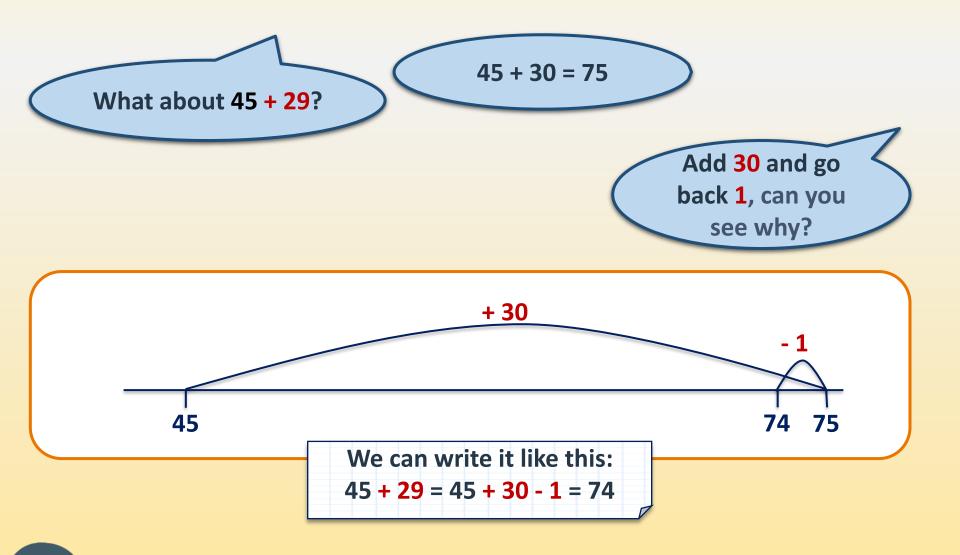


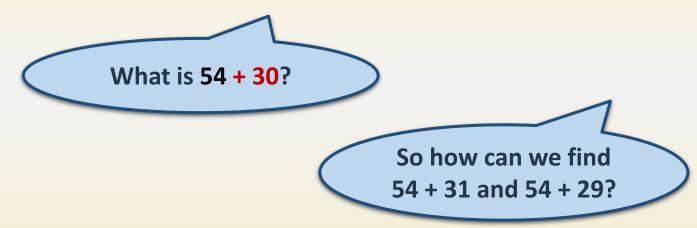
More Addition and Subtraction Add/subtract multiples and near-multiples of 10, 100, 1000

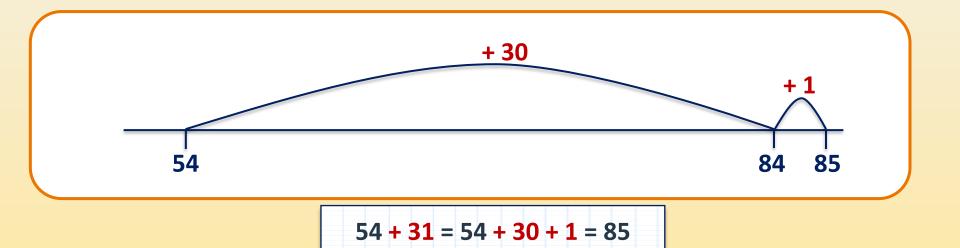
Objectives

Wednesday

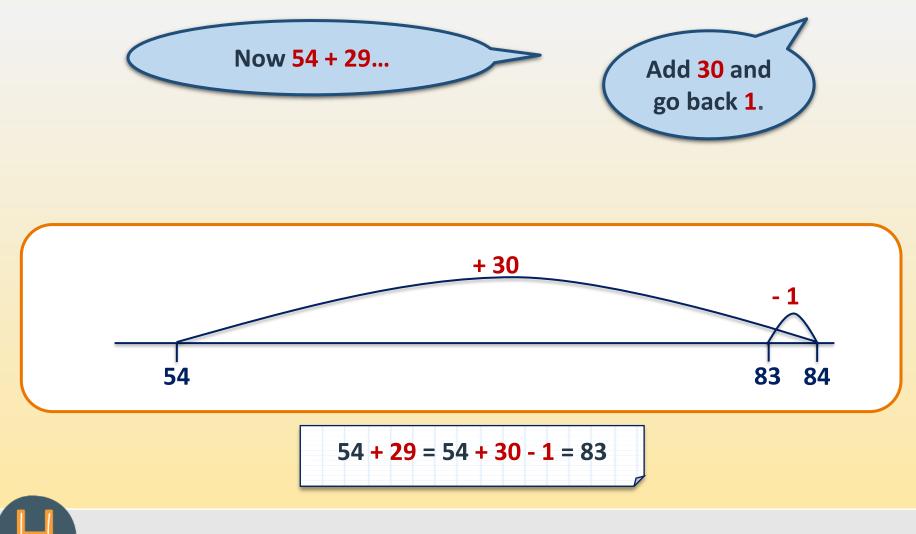


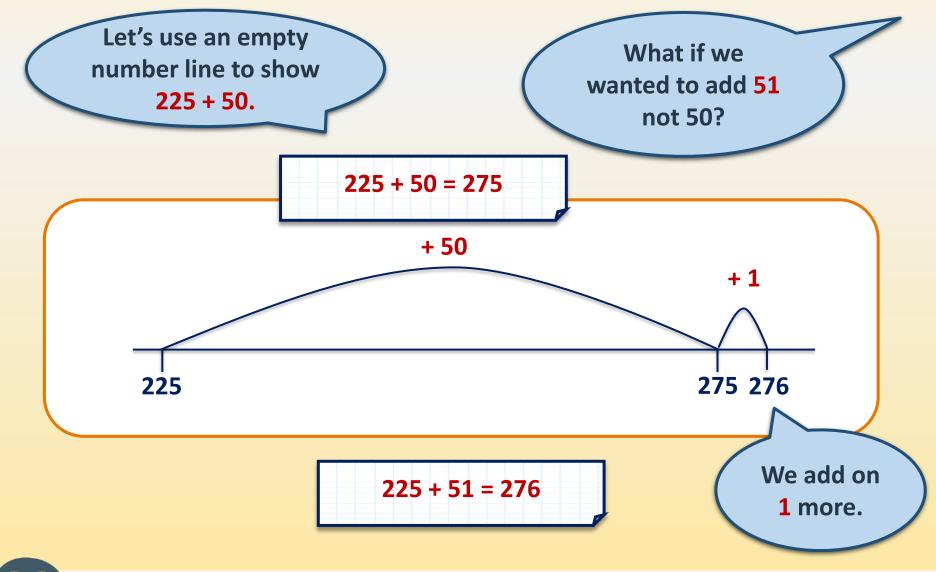


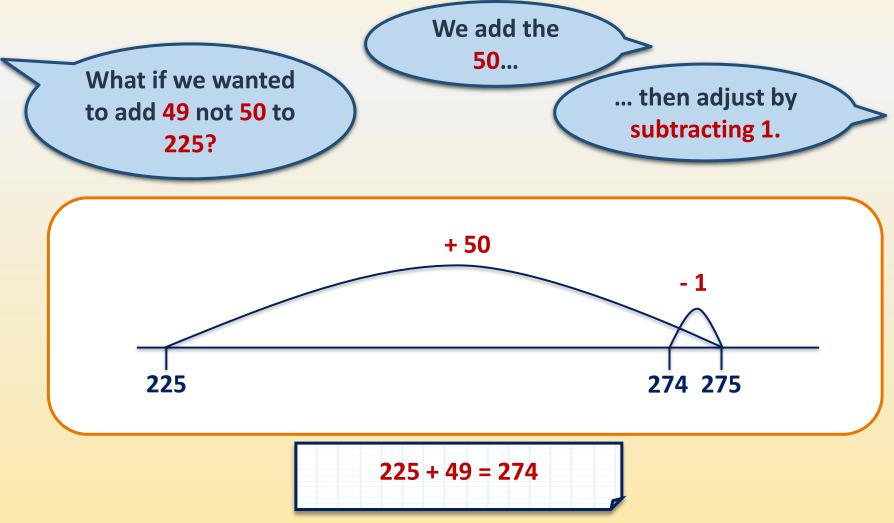


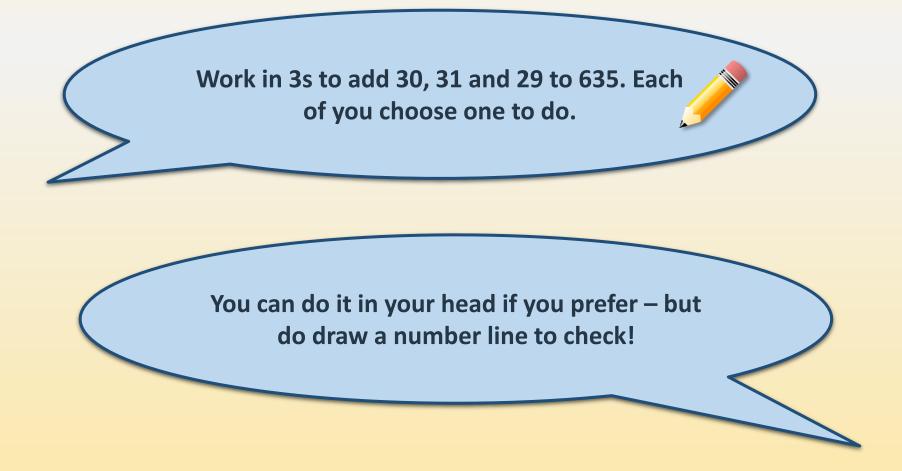












Adding multiples and near multiples Sheet 2				
Record your jottings on the empty number lines.				
1. 346 + 20 =	346 + 21 =			
2. 257 + 20 =	257 + 21 =			
3. 935 + 30 =	935 + 31 =			
4. 726 + 30 =	726 + 31 =			
5. 412 + 40 =	412 + 41 =			
6. 552 + 20 =	552 + 21 =	552 + 19 =		
7. 674 + 30 =	674 + 31 =	674 + 29 =		
8. 261 + 40 =	261 + 41 =	261 + 39 =		

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	Adding multiples of	10 and 100 an Sheet 5	d multiples + 1, - 1		
	1 . 156 + 20	156 + 19	156 + 21		
	2 . 347 + 40	347 + 39	347 + 41		
	3 . 661 + 30	661 + 29	661 + 31		
	4 . 346 + 100	346 + 99	346 + 101		
	5 . 257 + 200	257 + 199	257 + 201		
	6 . 435 + 300	435 + 299	435 + 301		
	7 . 726 + 100	726 + 99	726 + 101		
	8 . 412 + 400	412 + 399	412 + 401		
	9 . 189 + 30	Challenge			
	10 . 275 + 40		vith a number. He add er did he start with?	^{ts 99 nit} Challeng	ge xactly 1000.
				Pin	
H	© <u>hamilton-trust.org.uk</u>		20		Year 3/4

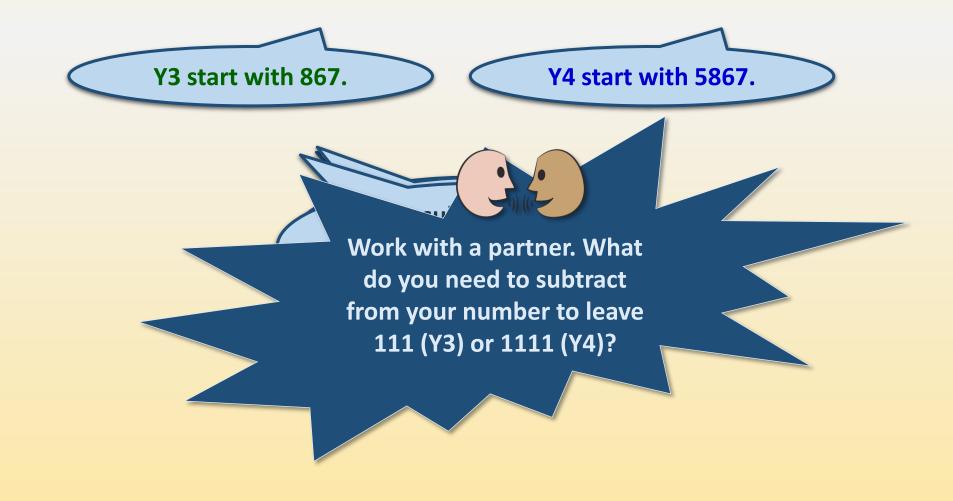
More Addition and Subtraction Add/subtract multiples and near-multiples of 10, 100, 1000

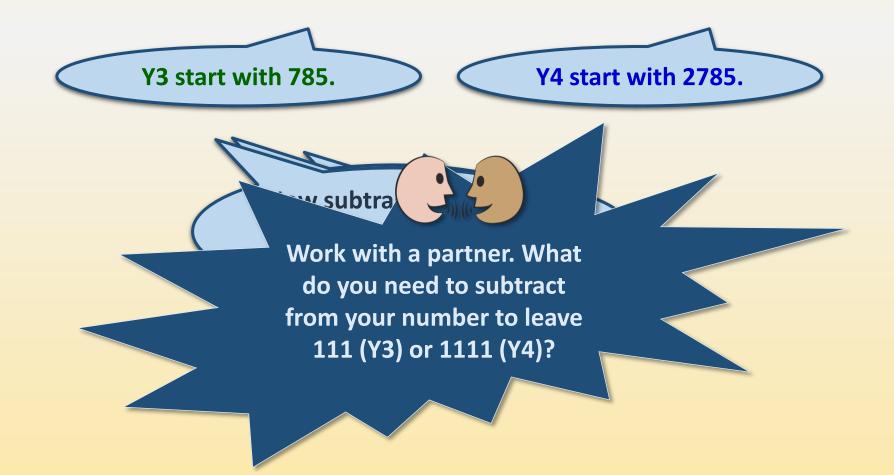
Objectives

Thursday

Use place value to subtract multiples of 1, 10, 100 from 2-digit and 3-digit numbers

Use place value to subtract multiples of 1, 10, 100, 1000 from numbers with up to 4 digits



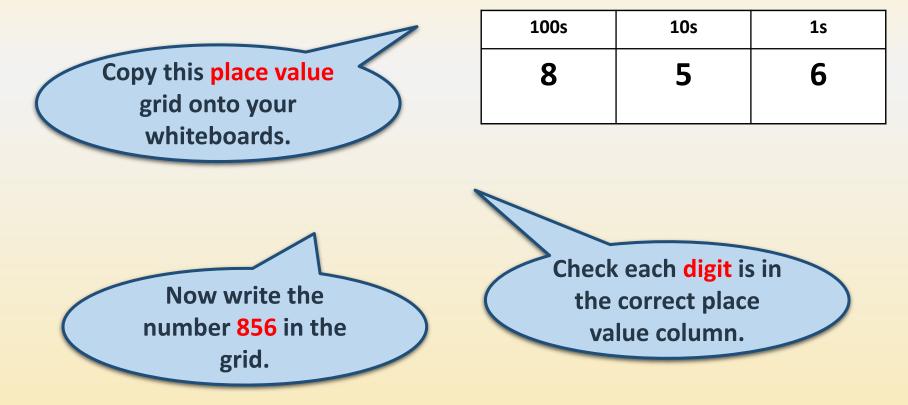


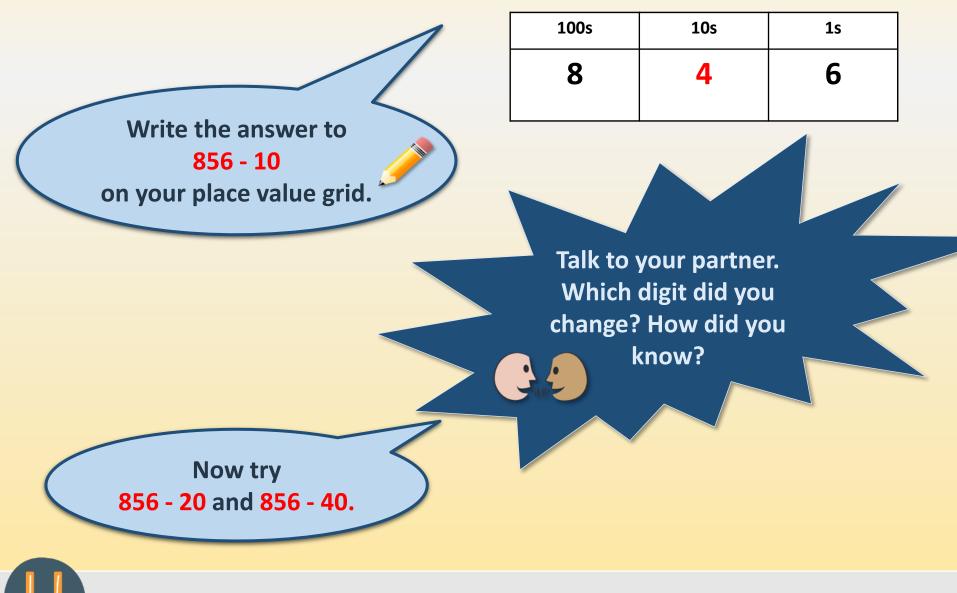
Using place value to subtract

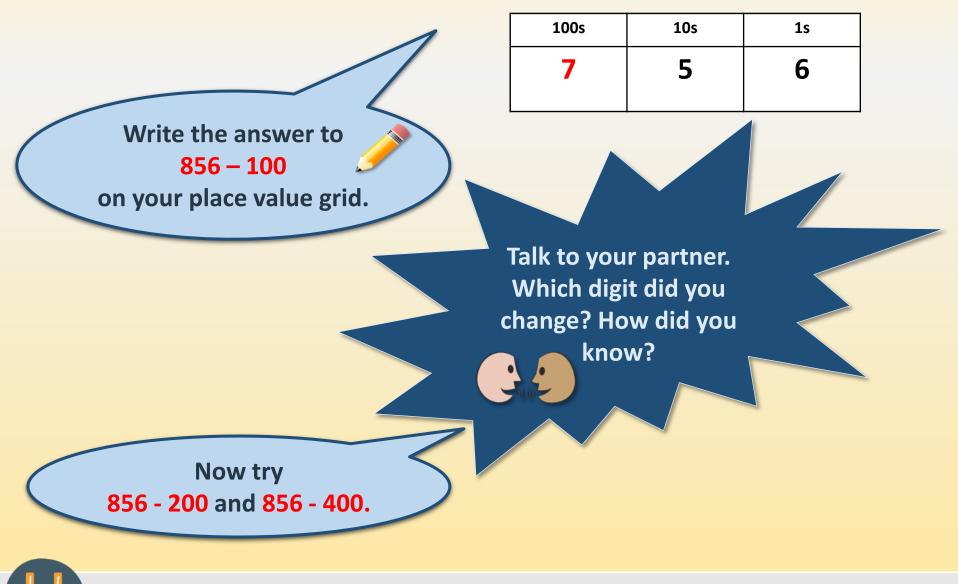
Sheet 2

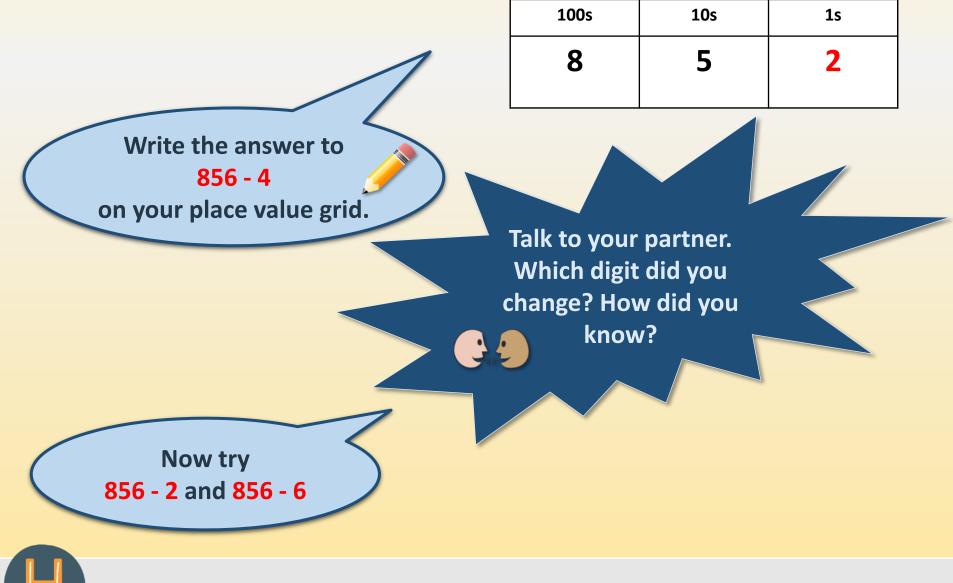
Set A	Set B	Set C
1. 580 – 40	1. 5280 – 40	1. 7544 – 430
2. 358 – 3	2. 7652 – 200	2. 2688 – 307
3. 758 – 30	3. 2566 – 21	3. 9999 – 1234
4. 388 – 25	4. 4358 – 101	4. 8085 – 1005
5. 467 – 246	5. 2372 – 220	5. 9836 – 2315
6. 750 – 600	6. 6960 – 340	6. 9630 – 50
7. 360 – 120	7. 3654 – 2001	7. 8200 – 400
8. 350 – 150	8. 3333 – 201	8. 7777 – 707











Subtracting 1s, 10s or 100s from 3-digit numbers				
Section A	Section B	Sheet 1 Section C		
1. 45 - 2 =	1. 432 - 1 =	 84 people are on a coach, 20 get off in Manchester. How many are left on the coach? 		
2 45 20 -	2. 432 - 10 =			
2. 45 - 20 =	3. 432 - 100 =	2. 76 people are on a coach, 4 get off in Birmingham.		
3. 74 - 3 =	4. 546 - 2 =	How many are left on the coach?		
	5. 546 - 20 =	3. 367 people are on an aeroplane, 200 get off in		
4. 74 - 30 =	6. 546 - 200 =	Singapore. How many are left on the aeroplane?		
5. 56 - 4 =	7. 658 - 4 =	4. 453 people are on an aeroplane, 40 get off in New		
	8. 658 - 40 =	York. How many are left on the aeroplane?		
6. 56 - 40 =	9. 658 - 400 =	5. 569 people are on an aeroplane, 8 get off in Milan.		
7.78-6=	10. 979 - 6 =	How many are left on the aeroplane?		
	11. 979 - 60 =	6 625 people are on an aeroplane 30 act off in Teluc		
8. 78 - 60 =	12. 979 - 600 =	 6. 625 people are on an aeroplane, 30 get off in Tokyo. How many are left on the aeroplane? 		

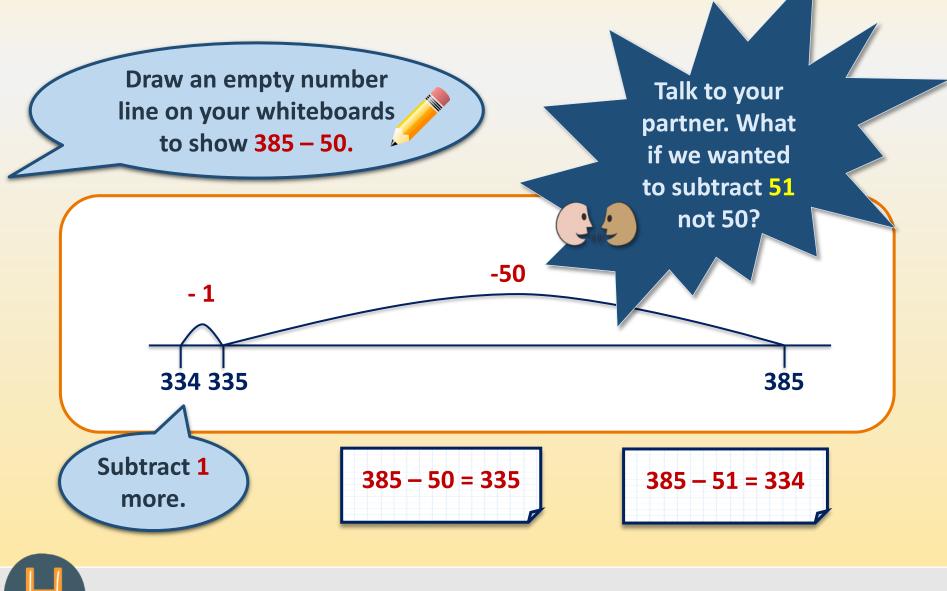
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More Addition and Subtraction Add/subtract multiples and near-multiples of 10, 100, 1000

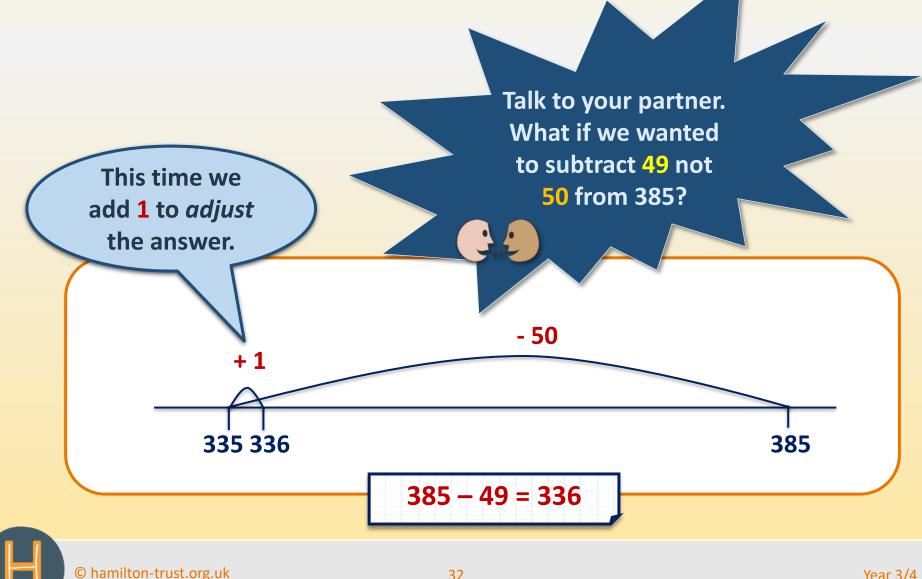
Objectives

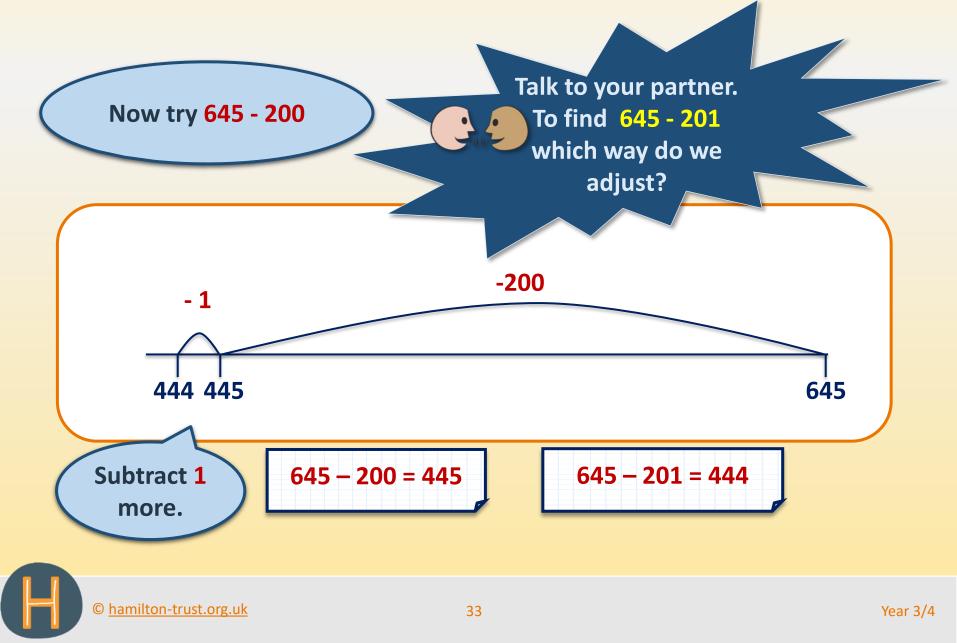
Friday

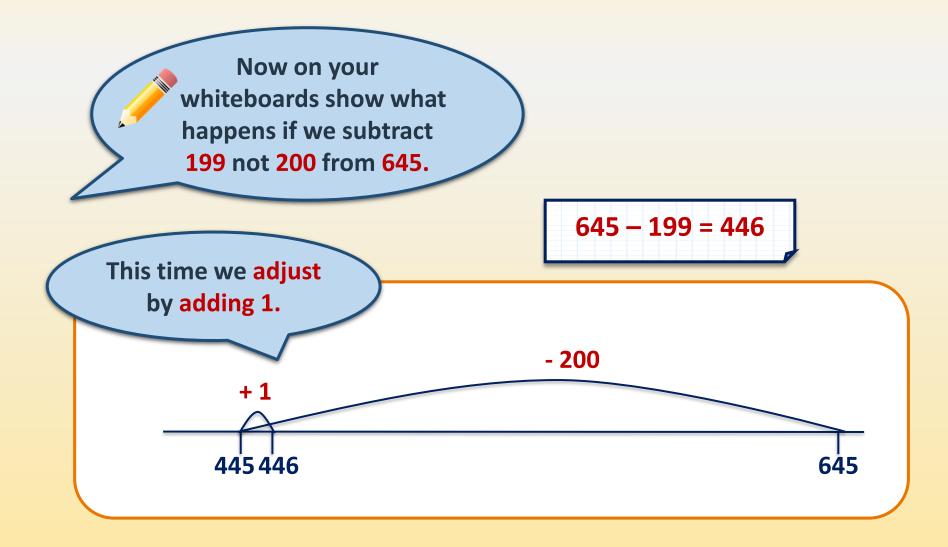
Subtract near multiples of 10 and 100 from 2-digit and 3-digit numbers Subtract near multiples of 1, 10 and 100 from numbers with up to 4 digits



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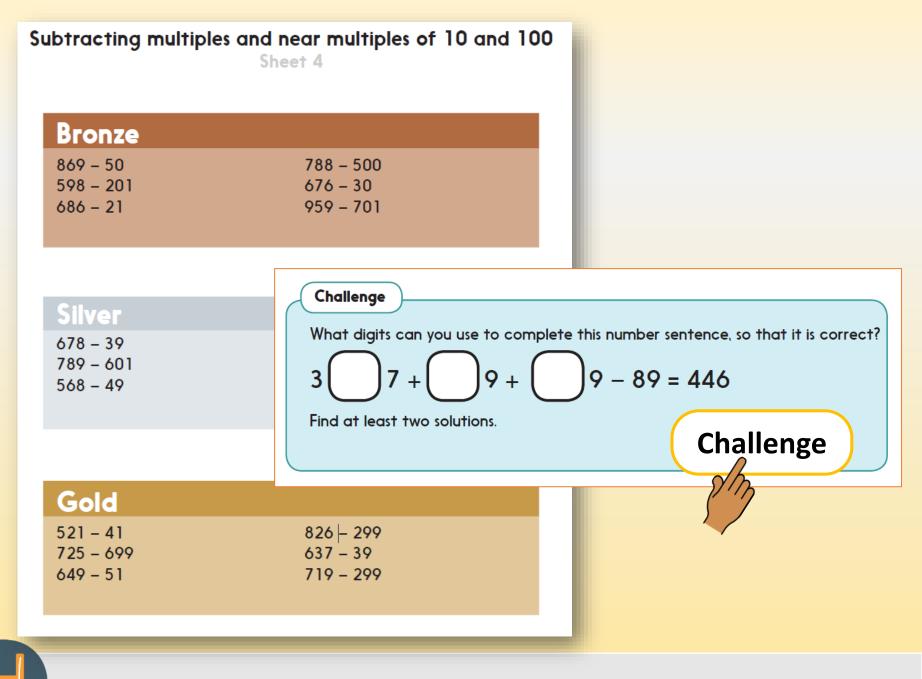




Subtracting multiples and near multiples Sheet 2				
Record your jottings on t	Record your jottings on the empty number lines.			
1. 346 - 20 =	346 - 21 =			
2. 257 - 20 =	257 - 21 =			
3. 955 - 30 =	955 - 31 =			
4. 786 - 30 =	786 - 31 =			
5. 432 - 20 =	432 - 21 =			
6. 776 - 30 =	776 - 29 =	776 -	31 =	
7. 935 - 30 =	935 - 29 =	935 -	31 =	
8. 492 - 40 =	492 - 39 =	492 -	41 =	

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More Addition and Subtraction Add/subtract multiples and near-multiples of 10, 100, 1000

Well Done! You've completed this unit.

Objectives

Day 1

Use place value to add multiples of 1, 10, 100 to 2-digit and 3-digit numbers Use place value to add multiples of 1, 10, 100, 1000 to numbers with up to 4 digits

Day 2

Add near multiples of 10 and 100 to two and three-digit numbers Add near multiples of 1, 10, 100, 1000 to numbers with up to 4 digits

Day 3

Use place value to subtract multiples of 1, 10, 100 from 2-digit and 3-digit numbers Use place value to subtract multiples of 1, 10, 100, 1000 from numbers with up to 4 digits

Day 4

Subtract near multiples of 10 and 100 from 2-digit and 3-digit numbers Subtract near multiples of 1, 10 and 100 from numbers with up to 4 digits

Problem solving and reasoning questions

Year 3

Add 80 to 263 then subtract 1. How much bigger is your answer than 263?

Use number cards 9, 1, 5 and 7. How many additions of near multiples can you create?

Mystery number

What ONE number makes this sentence true?

76 – ? = 18 + ?

How many times will you add 19 to 24 to reach 100? What number will you start with if you add 18 repeatedly and reach 100 exactly?

Problem solving and reasoning answers

Year 3

Add 80 to 263 then subtract 1. How much bigger is your answer than 263? The answer, 342, is 79 bigger. Some may answer 81, simply adding the 80 and 1.

Use number cards 9, 1, 5 and 7. How many additions of near multiples can you create? These occur when either the 1 or the 9 digit (or both) are in the 1s place: 79 + 51, 97 + 51, 59 + 71, 95 + 71, 57 + 91, 75 + 91, 17 + 59, 15 + 79, 57 + 19, 75 + 19. **NB** Children may include answers with the numbers the other way round, e.g. 51 + 79 rather than 79 + 51 or include both.

Mystery number...

What ONE number makes this sentence true? 29

76 – 29 = 18 + 29 Best found by trial and improvement, although some children may work out that 29 is half the difference between 76 and 18.

How many times will you add 19 to 24 to reach 100? 4 times, the sequence is: 24, 43, 62, 81, 100

What number will you start with if you add 18 repeatedly and reach 100 exactly? You would have to start at 10 and add 18 five times: 10, 28, 46, 64, 82, 100.

Problem solving and reasoning questions

Year 4

Complete this sequence by adding 198 each time.

169, 367, ____, 763, ____, ____

What needs to be subtracted from 985 to get 587?

Harry subtracted 59 from 354 and got 293. Explain what he did wrong.

Complete the number sentences:

438 + 39 = ____ 356 - ____ = 307 ____ - 198 = 314

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Problem solving and reasoning answers

Year 4

Complete this sequence by adding 198 each time. 169, 367, **565**, 763, **961**, **1159**

What needs to be subtracted from 985 to get 587? **398**

Harry subtracted 59 from 354 and got 293. Explain what he did wrong. He has adjusted 'the wrong way'. 354 - 60 = 294. Since 59 is being subtracted he should add 1 back to get to the answer (295), instead he has subtracted 1 more.

Complete the number sentences: 438 + 39 = **477** 356 - **49** = 307 **512** - 198 = 314