Y3/4 More addition and subtraction Unit 2 (34316)

Additional teacher instructions for practice sheets

These notes indicate which practice sheets are most appropriate for which groups.

Day 1 Y3 Adding 2-digit numbers Sheet 1

Working towards ARE / Working at ARE / Greater Depth Working towards ARE complete Set A using place value cards. Working at ARE complete every other question in Set A and all of Set B. Greater Depth complete every other question in Set B and all of Set C.

Day 1 Y4 Adding 3-digit numbers using compact addition Sheet 2 Working towards ARE / Working at ARE

Day 1 Y4 Adding 3-digit numbers using compact addition Sheet 3 Greater Depth

Day 2 Y3 Adding 2-digit numbers Sheet 1

Working towards ARE / Working at ARE Working towards ARE complete Set A using place value cards. Working at ARE complete Set B and the Challenge.

Day 2 Y3 Adding 2-digit numbers Sheet 2

Greater Depth

Day 2 Y4 Addition word problems with three 3-digit numbers Sheet 3 Working towards ARE

Day 2 Y4 Addition word problems with three 3-digit numbers Sheet 4 Working at ARE / Greater Depth

Day 3 Y3 Adding 2-digit numbers Sheet 1

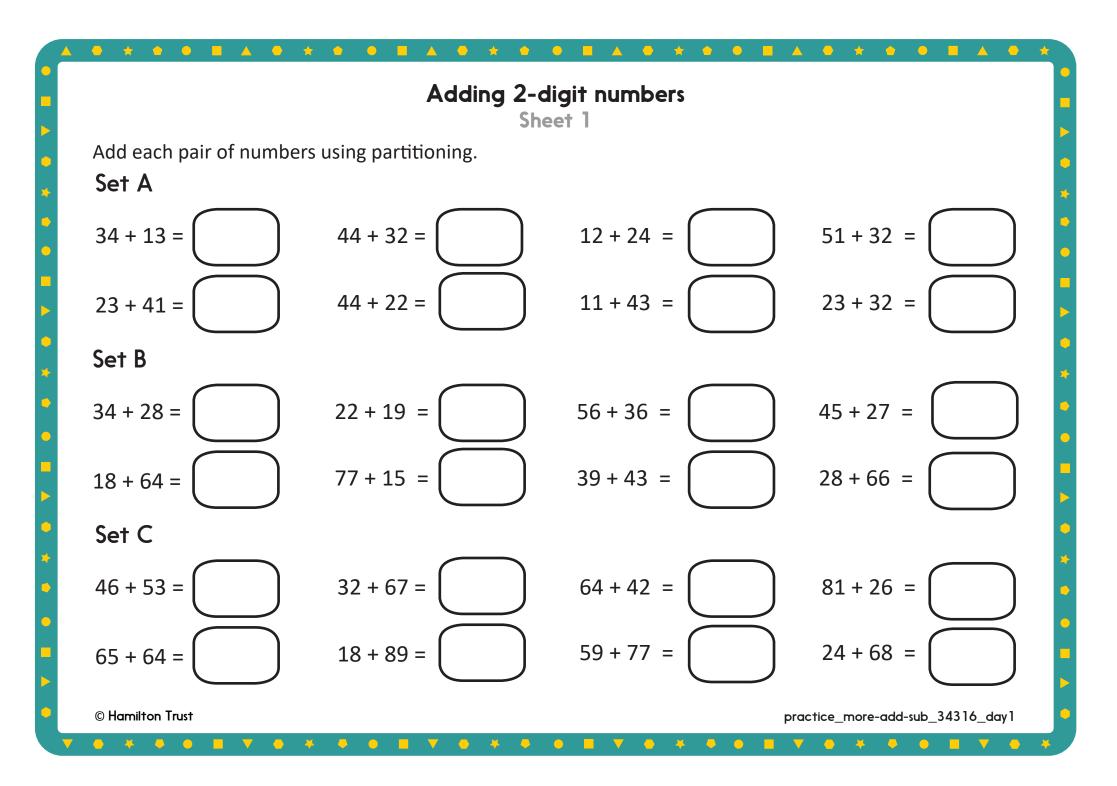
Working towards ARE / Working at ARE / Greater Depth Working towards ARE use place value cards to support and aim to complete questions 1 to 8. Working at ARE aim to complete questions 1 to 12. Greater Depth start at question 5 and complete the sheet.

Day 3 Y4 Adding three numbers Sheet 2

Working towards ARE / Working at ARE Working towards ARE complete Parts 1 and 2. Working at ARE complete Parts 2 and 3.

Day 3 Y4 Adding four numbers Sheet 3

Working at ARE / Greater Depth Working at ARE complete Parts 1 and 2. Greater Depth complete Parts 2 and 3.



	Shee		
А	В	C	D
243	246	268	243
+ 645	+ 645	+ 645	645 + 111
831 + 154	838 + 154	837 + 174	631
			154
			+ 213
755 + 321	791 + 325	755 + 386	
			451
			126 + 321
264 + 535	243 + 585	267 + 555	
			244 729
426 + 453	426 + 456	466 + 456	+ 133

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Challenge

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Can you find a pair of 3-digit numbers which add to give exactly 1000? All six digits must be different!

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Adding 3-digit numbers using compact addition

Sheet 3

- Write a 3-digit number obeying this rule:
 - The digits must go up in twos (e.g. 468 or 357).
- Write the number with the same digits in reverse order.
- Add the two numbers using column addition.
- Circle the answer.
- Repeat this four times.
- What do you notice about the pattern in the answers?
- Predict what happens if you add numbers which go up in threes (e.g. 147 and 741).
- Try three like this.
- How about if they go up in 4s....?

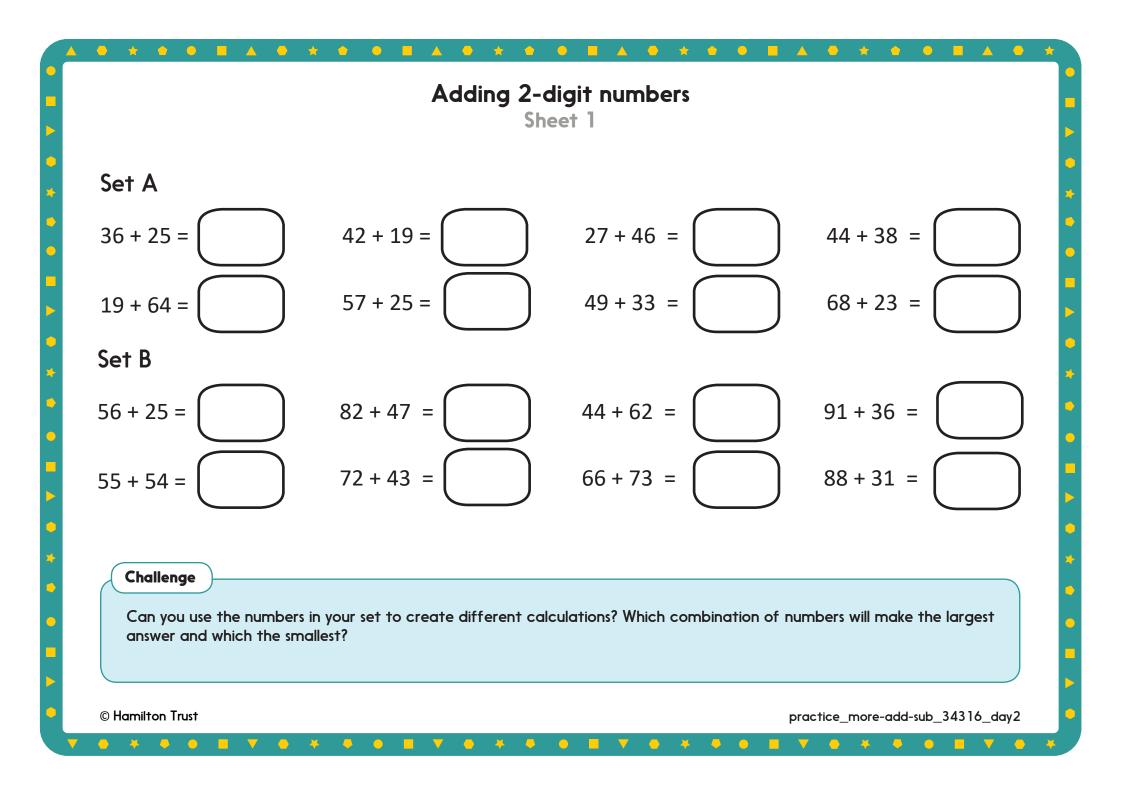
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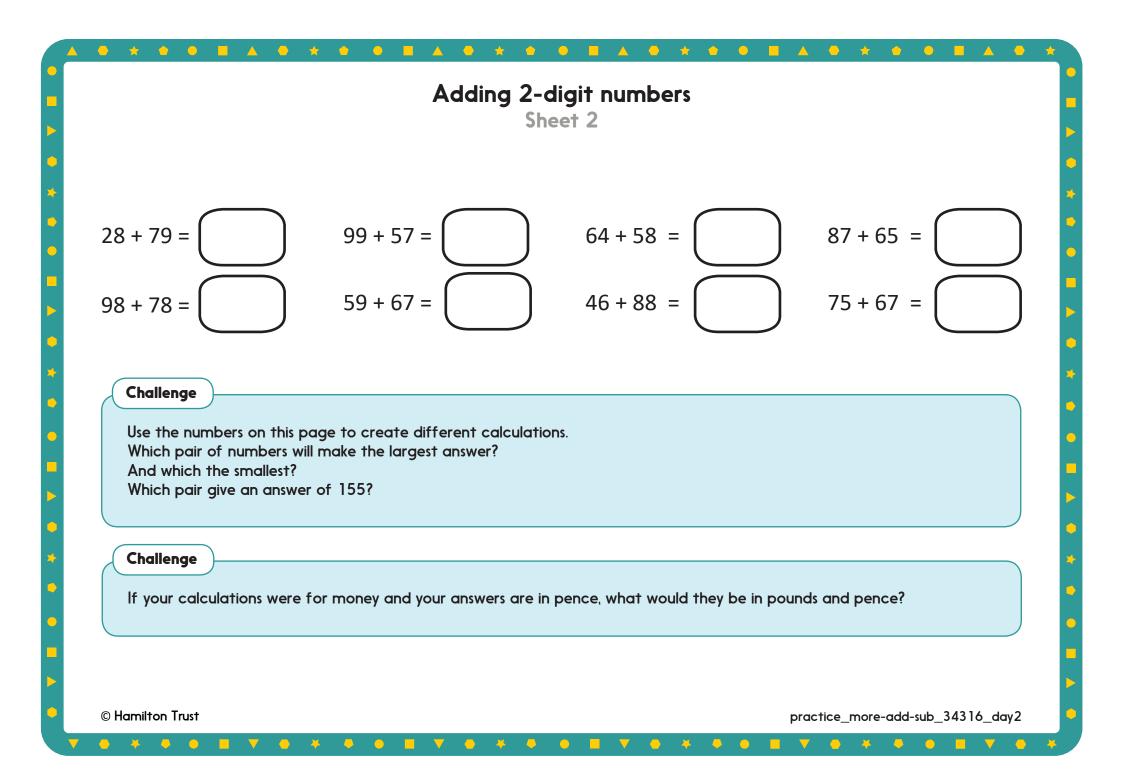
Challenge

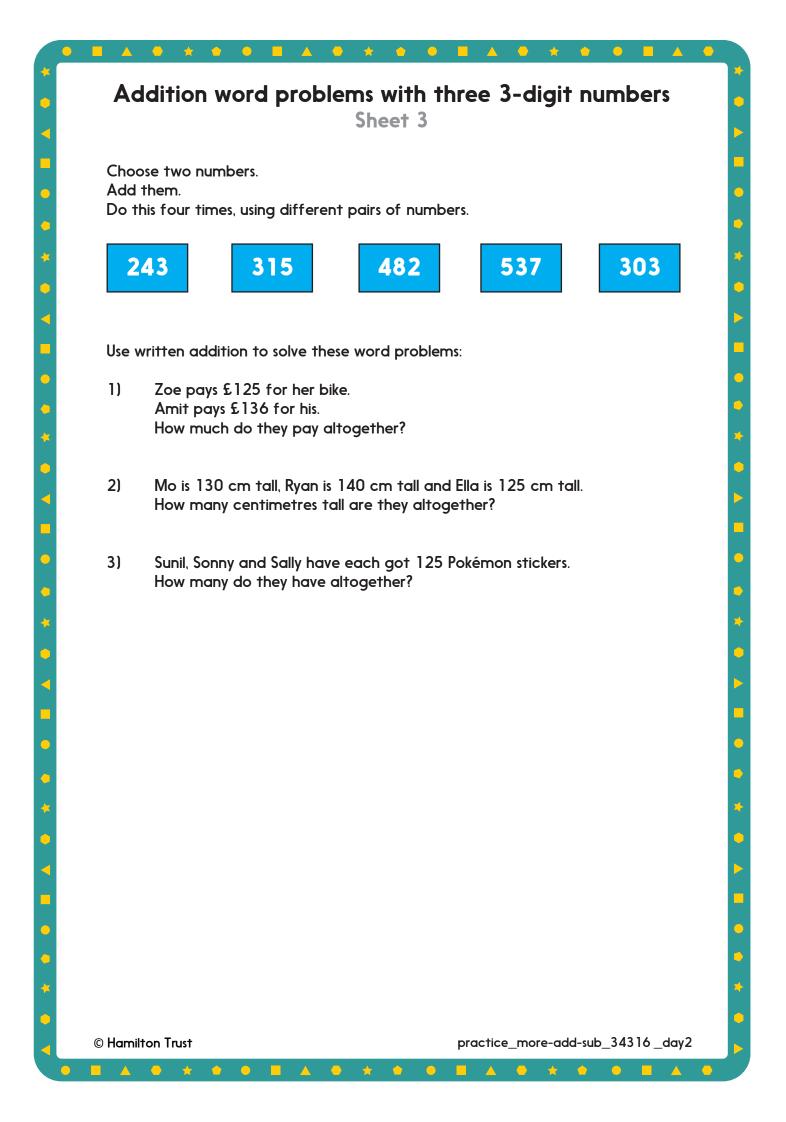
What happens with 4-digit numbers, e.g. 2468 + 8642 = ?

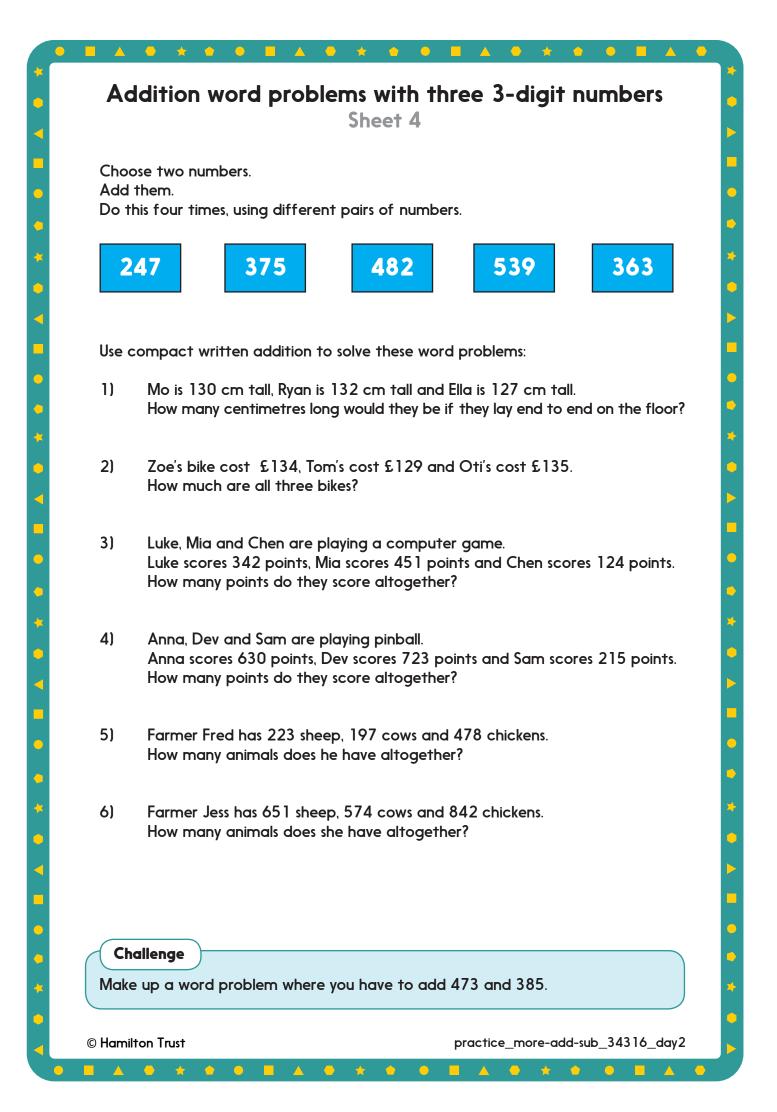
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	Adding 2-digit numbers	*
	Sheet 1	
1.	36 + 23 =	
2.	54 + 24 =	•
3.	67 + 21 =	*
4.	65 + 25 =	•
		>
		-
5.	36 + 47 + 54 =	•
6.	42 + 28 + 38 =	•
7.	53 + 27 + 41 =	*
8.	52 + 62 + 38 =	
9.	42 + 37 + 48 =	
10.	55 + 32 + 25 =	
		*
11.	Ellie bought a skateboard for £45, a helmet for £24 and knee pads for £19.	•
	How much did she spend altogether?	
12.	Daniel bought roller skates for £56, a helmet for £24 and arm pads for £21.	
	How much did he spend altogether?	
13.	146 + 58 + 47 =	-
14.	241 + 27 + 18 =	•

15. 135 + 28 + 36 =

16. 127 + 54 + 31 =

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Adding three numbers

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Sheet 2

Part 1

Use expanded addition to solve these additions: 12 + 13 + 22 32 + 14 + 27 36 + 33 + 24 Use expanded addition to solve these additions: 20 + 16 + 24 27 + 21 + 34 55 + 44 + 32

Part 2

Use compact addition to solve t	hese additions:
21 + 42 + 34	32 + 47 + 46
34 + 25 + 42	46 + 51 + 28
51 + 62 + 45	67 + 72 + 39
48 + 46 + 53	74 + 63 + 86

Part 3

Choose three cards. Add the numbers. Do this six times. You must do a different addition each time!





I added three consecutive numbers with a total of 222. What were the numbers?

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Adding four numbers

Sheet 3

Part 1

Use expanded or compact addition to solve these additions:

11 + 23 + 12 + 31	35 + 21 + 14 + 32
24 + 15 + 23 + 11	41 + 10 + 22 + 53
32 + 61 + 45 + 56	58 + 72 + 63 + 64

Part 2

Use compact addition to solve these additions:62 + 75 + 84 + 5376 + 71 + 27 + 8283 + 81 + 94 + 3795 + 12 + 60 + 7684 + 72 + 85 + 9698 + 89 + 78 + 97

Part 3

A palindrome reads the same backwards as forwards, e.g. the words: mum, level or madam. Palindromic numbers do the same, e.g. 4114 or 55 or 727.

Add four 2-digit numbers to give each of these palindromic answers:







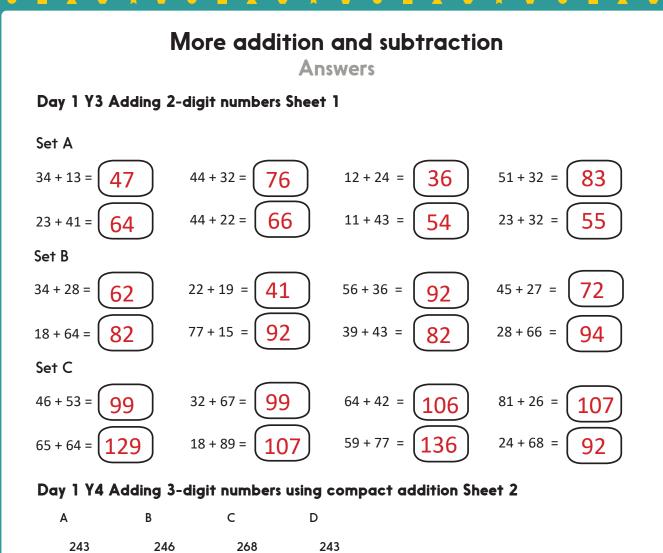


Challenge

What is the largest possible palindromic total you can find by adding four 2-digit numbers?

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243	246	268	243
+ 645	+ 645	+ 645	645
	1	11	+ 111
888	891	913	
			999
831	838	837	
+ 154	+ 154	+ 174	631
	1	111	154
985	992	1011	+ 213
755	791	755	998
+ 321	+ 325	+ 386	
1	11	111	451
1076	1116	1141	126
			+ 321
264	243	267	
+ 535	+ 585	+ 555	898
	1	11	
799	828	822	244
			729
426	426	466	+ 133
+ 453	+ 456	+ 456	111
	1	11_	1106
879	882	922	
			327
			115
			+ 453
			1
			895

Challenge Can you find a pair of 3-digit numbers which add to give exactly 1000? All six digits must be different! e.g. 864 + 146

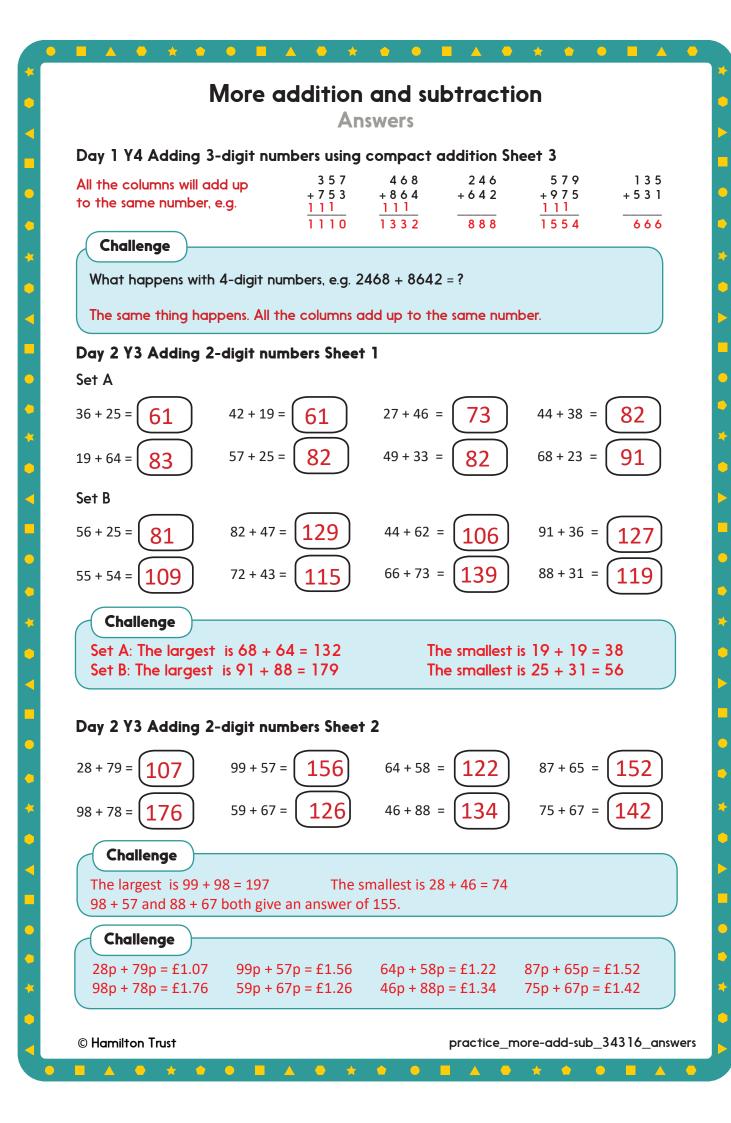
.g. 804 + 14 or

321 + 67

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Moro	addition and	subtraction			
More addition and subtraction Answers					
Answers Day 2 Y4 Addition word problems with three 3-digit numbers Sheet 3					
	315 +	-digit humbers sheet 5 482 +			
243 +	515 +	402 +			
243 + 315 = <mark>558</mark>	315 + 243 = 558				
243 + 482 = 725 243 + 537 = 780	315 + 482 = 797 315 + 537 = 852				
243 + 303 = 546	315 + 303 = 618				
527	202				
537 +	303 +				
537 + 243 = <mark>780</mark>	303 + 243 = <mark>546</mark>				
537 + 315 = <mark>852</mark> 537 + 482 = <mark>1019</mark>	303 + 315 = <mark>618</mark> 303 + 482 = 785				
537 + 303 = 840	303 + 482 - 783 303 + 537 = 840				
1.	2.	3.			
125	130	125			
+ 136	+ 140	+ 125			
$\frac{1}{52(1)}$	+ 125	125			
£261	395 cm	<u> </u>			
They pay £261	They are 395cm tall	They have 375			
altogether.	altogether.	stickers.			
Day 2 Y4 Addition word	problems with three	3-digit numbers Sheet 4			
247 +	375 +	482 +			
247 + 375 = <mark>622</mark>	375 + 247 = 62	482 + 247 = 729			
247 + 373 - 622	375 + 482 = 85				
247 + 539 = 786	375 + 539 = 91				
247 + 363 = <mark>610</mark>	375 + 363 = 73	482 + 363 = 845			
530	2/2				
539 +	363 +				
539 + 247 = <mark>786</mark>	363 + 247 = <mark>6</mark> 1	0			
539 + 375 = <mark>914</mark>	363 + 375 = 73				
539 + 482 = 1021	363 + 482 = 84				
539 + 363 = <mark>902</mark>	363 + 539 = <mark>90</mark>	12			
1. 2 .	3 . 4 .	5. 6.			
130 134	342 63	60 223 651			
+ 132 + 129	+ 451 + 72				
+ 127 + 135	+ 124 + 21				
389 cm £398	<u> </u>	<u>11</u> 2 <u>1</u> 8 898 2067			
They are 389cm tall All 3 bikes cos	t They score 917 They s	core 1568 He has 898 She has 2067 animals.			
altogether. £398.	points altogether. Points	altogether. animals.			
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More addition and subtraction Answers
Allsweis
Day 3 Y3 Adding 2-digit numbers Sheet 1
1. $36 + 23 = 59$ 2. $54 + 24 = 78$ 3. $67 + 21 = 88$ 4. $65 + 25 = 90$ 5. $36 + 47 + 54 = 137$ 6. $42 + 28 + 38 = 108$ 7. $53 + 27 + 41 = 121$ 8. $52 + 62 + 38 = 152$ 9. $42 + 37 + 48 = 127$ 10. $55 + 32 + 25 = 112$ 11. Ellie spent £88 altogether. 12. Daniel spent £101 altogether. 13. $146 + 58 + 47 = 251$ 14. $241 + 27 + 18 = 286$ 15. $135 + 28 + 36 = 199$ 16. $127 + 54 + 31 = 212$
Day 3 Y4 Adding three numbers Sheet 2
Part 1 $12 + 13 + 22 = 47$ $20 + 16 + 24 = 60$ $32 + 14 + 27 = 73$ $27 + 21 + 34 = 82$ $36 + 33 + 24 = 93$ $55 + 44 + 32 = 131$
Part 2
21 + 42 + 34 = 97 $32 + 47 + 46 = 125$ $34 + 25 + 42 = 101$ $46 + 51 + 28 = 125$ $51 + 62 + 45 = 158$ $67 + 72 + 39 = 178$ $48 + 46 + 53 = 147$ $74 + 63 + 86 = 223$
Part 3
47 + 66 + 58 = 171 $66 + 58 + 45 = 169$ $47 + 66 + 45 = 158$ $66 + 58 + 74 = 198$ $47 + 66 + 74 = 187$ $66 + 45 + 74 = 185$ $47 + 58 + 45 = 150$ $58 + 45 + 74 = 177$ $47 + 58 + 74 = 179$ $47 + 45 + 74 = 166$
Challenge The numbers were: 73 + 74 + 75 = 222
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More addition and subtraction

Answers

Day 3 Y4 Adding four numbers Sheet 3

Part 1
11 + 23 + 12 + 31 = 77
24 + 15 + 23 + 11 = 73
32 + 61 + 45 + 56 = 194

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Part 2

62 + 75 + 84 + 53 = <mark>274</mark>
83 + 81 + 94 + 37 = <mark>295</mark>
84 + 72 + 85 + 96 = 337

Part 3

Examples include: 202 = 48 + 17 + 83 + 54 191 = 23 + 38 + 69 + 61 333 = 81 + 82 + 83 + 87 252 = 49 + 74 + 83 + 46

35 + 21 + 14 + 32 = 102	
41 + 10 + 22 + 53 = <mark>126</mark>	
58 + 72 + 63 + 64 = 257	

76 + 71 + 27 + 82 = 256 95 + 12 + 60 + 76 = 243 98 + 89 + 78 + 97 = 362

Challenge

393 is the largest possible answer, e.g. 99 + 99 + 98 + 97

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