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

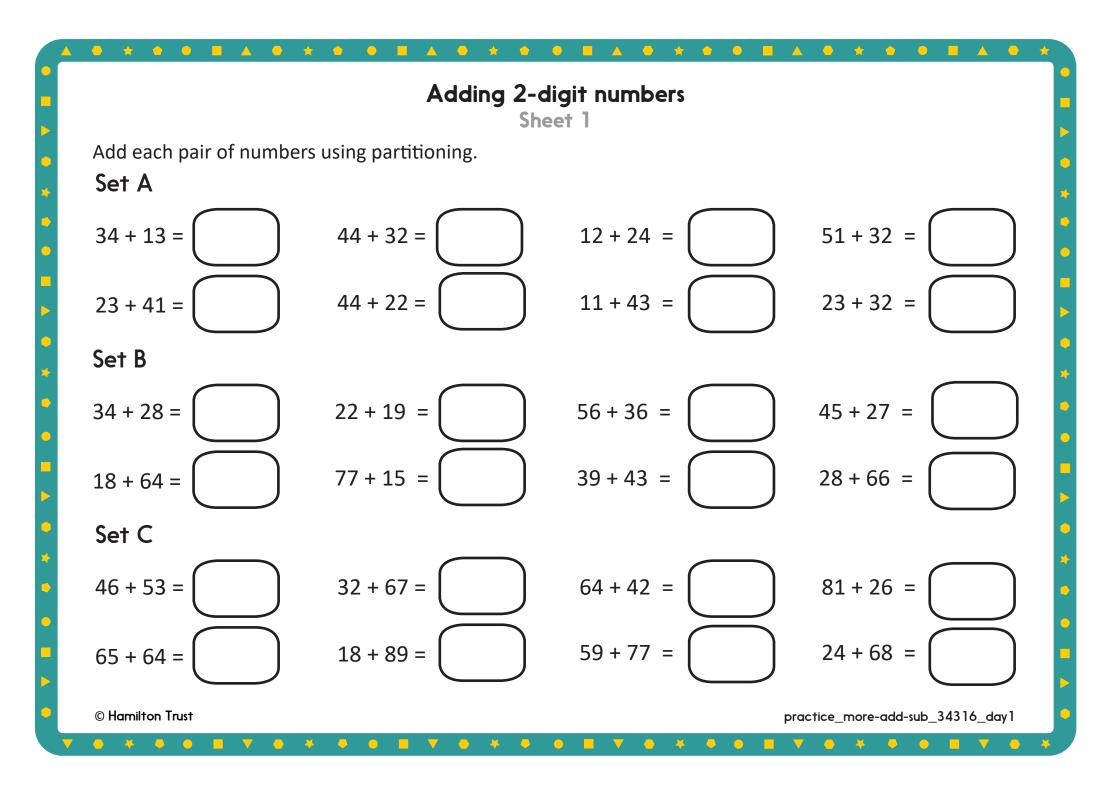
Working towards ARE / Working at ARE / Greater Depth Working towards ARE use place value cards to support and aim to complete questions 1 to 8. Working at ARE aim to complete questions 1 to 12. Greater Depth start at question 5 and complete the sheet.

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....?

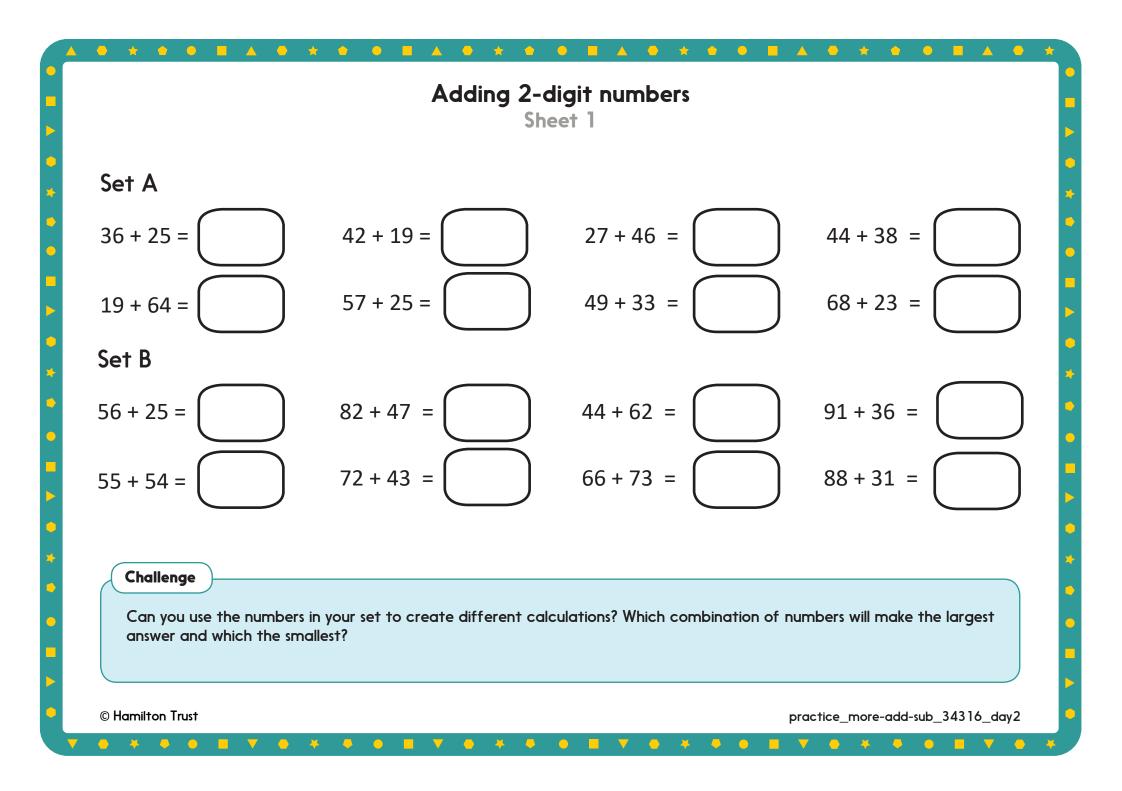
| U | |
|------------|---------|
| 0 | |
| 0 | 357 |
| 0 | + 7 5 3 |
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| 0 | |

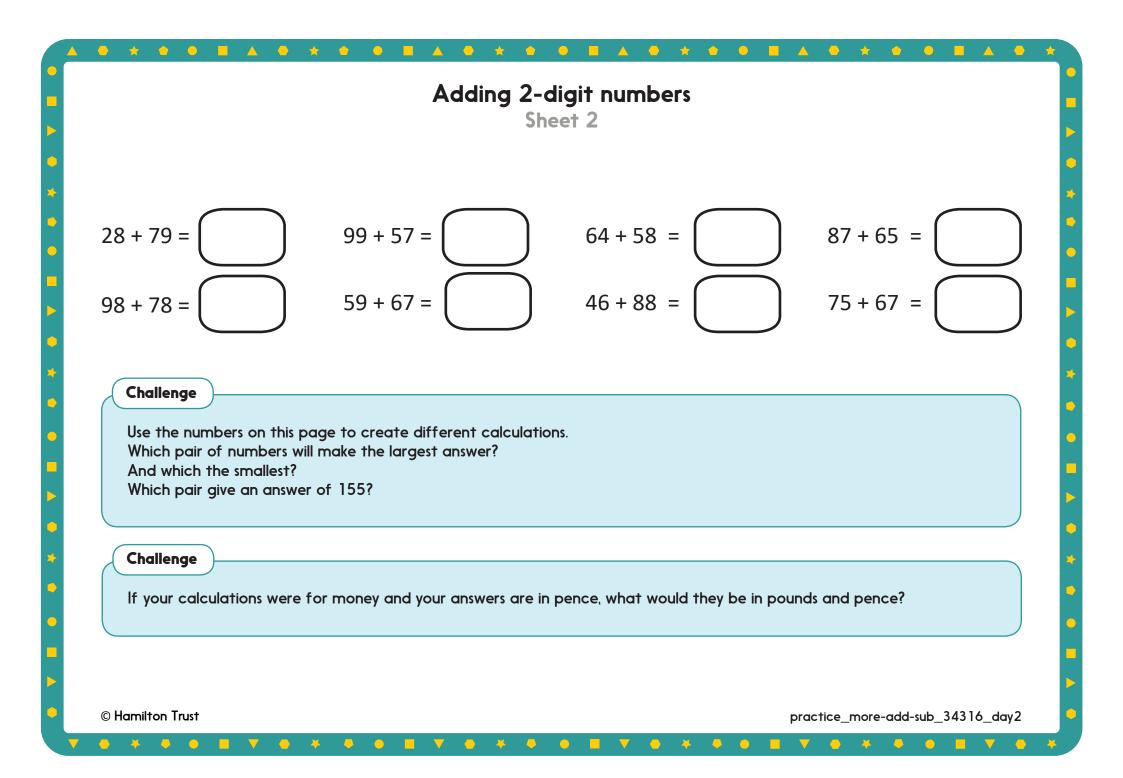
Challenge

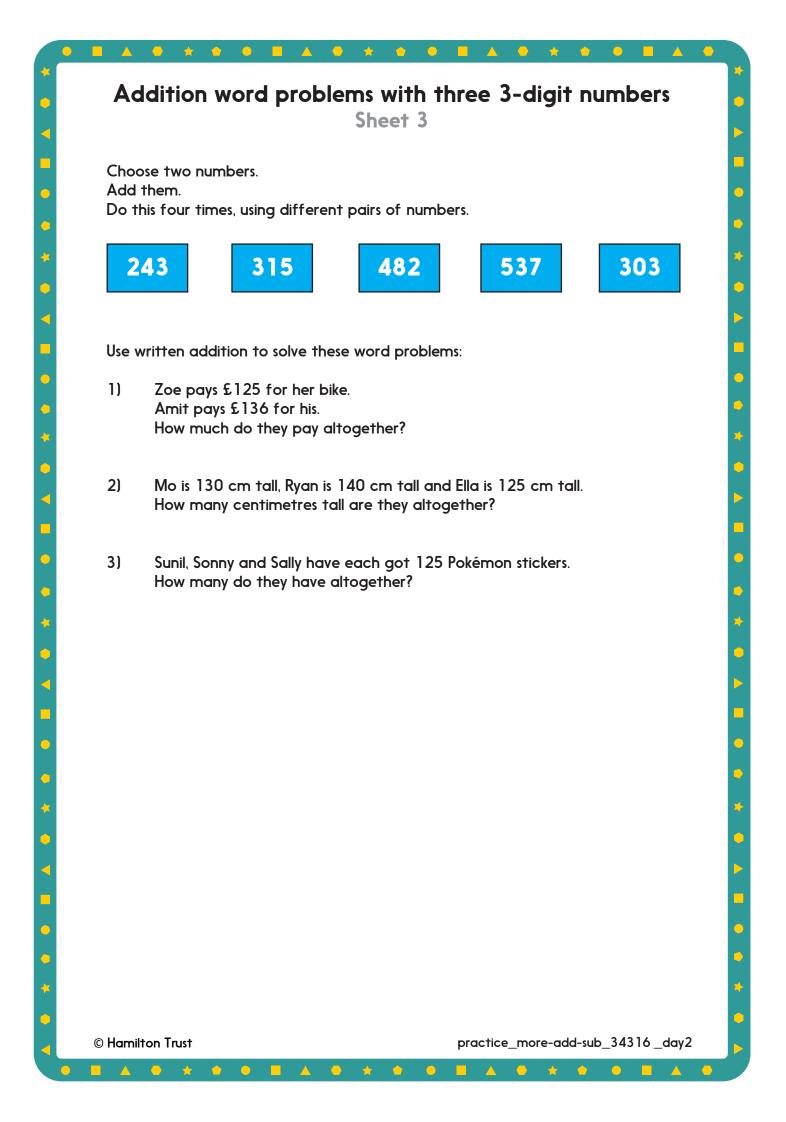
What happens with 4-digit numbers, e.g. 2468 + 8642 = ?

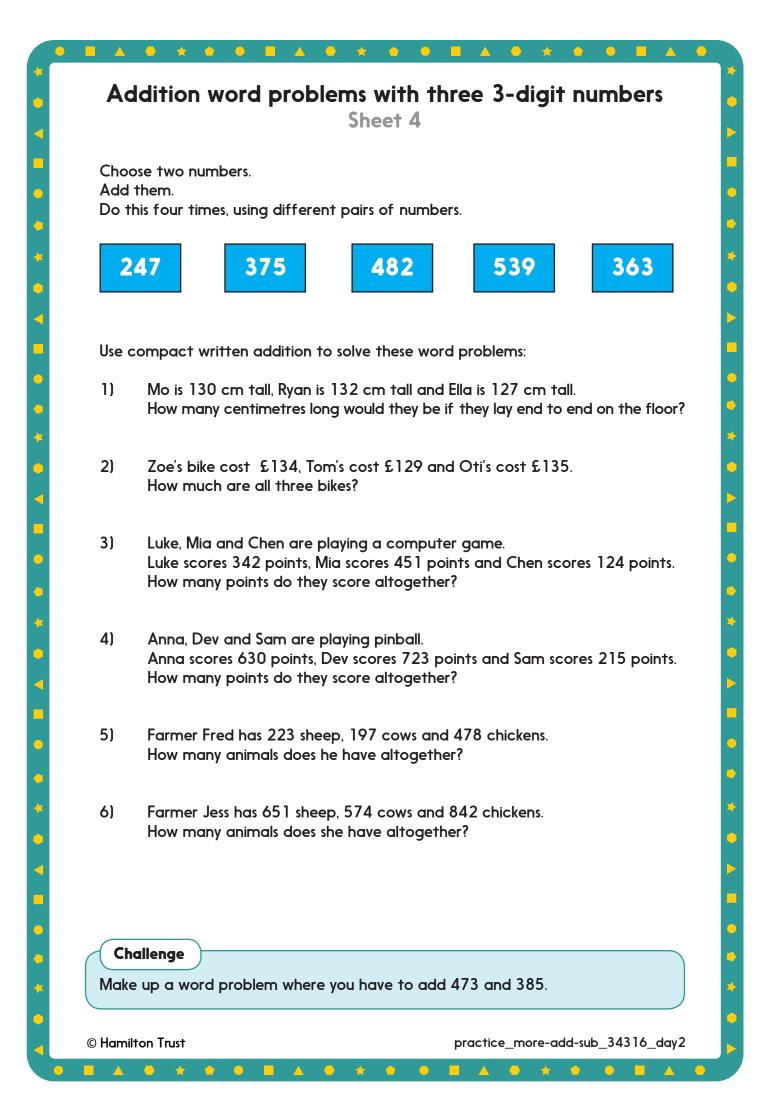
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| • • • | • * • • = • • * • • = • • * • • = • | - |
|-------|---|---|
| | Adding 2-digit numbers | * |
| | Sheet 1 | |
| | | |
| 1. | 36 + 23 = | |
| 2. | 54 + 24 = | • |
| 3. | 67 + 21 = | * |
| 4. | 65 + 25 = | • |
| | | > |
| | | - |
| 5. | 36 + 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:







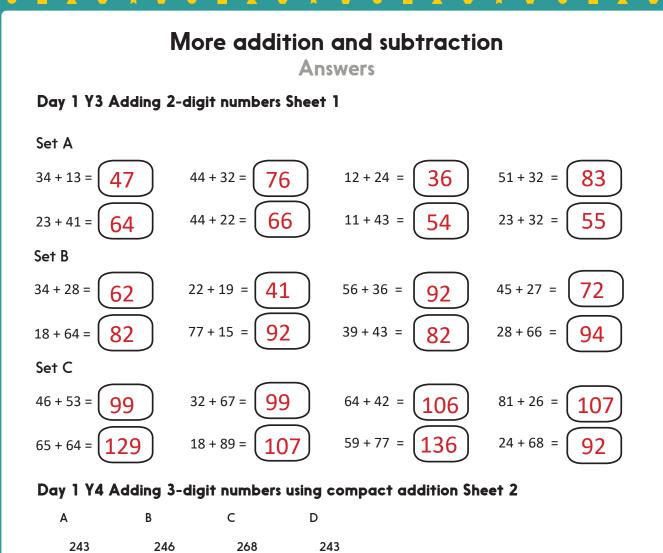


Challenge

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

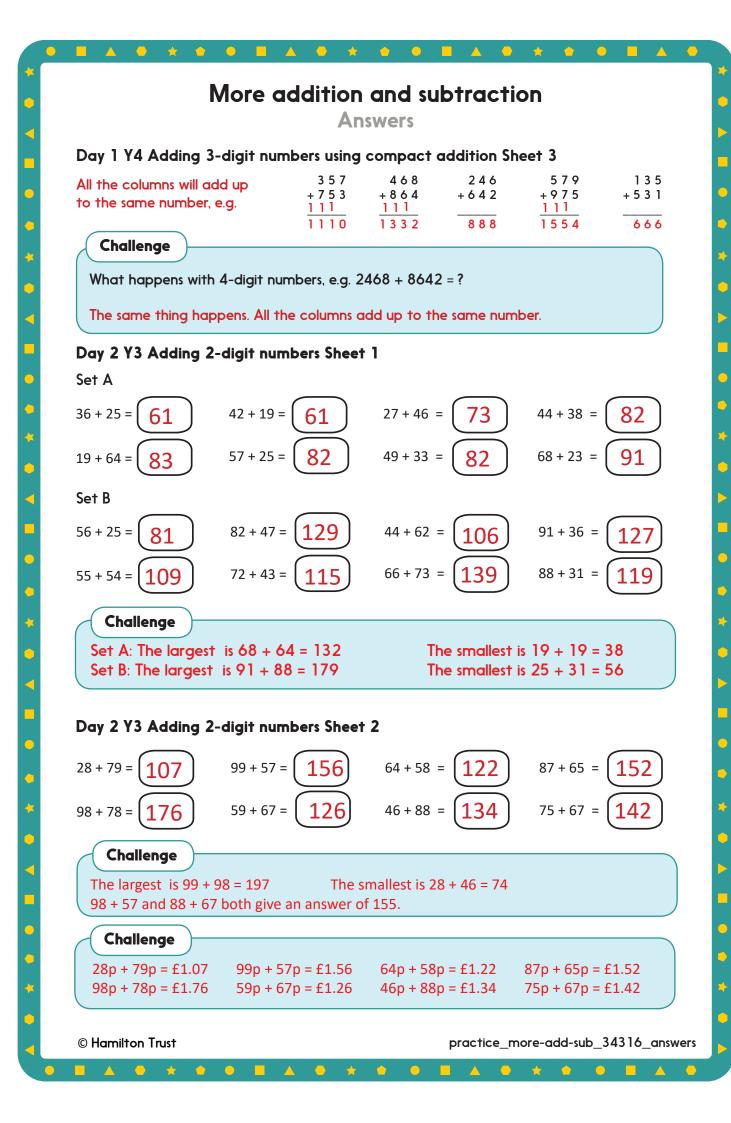
.g. 804 + 14 or

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 |
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| 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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