

Y3/4 Addition and subtraction Unit 1 (34492)

Additional teacher instructions for practice sheets

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

Day 1 Y3 Adding pairs of 2-digit numbers Sheet 1

Working towards ARE

Day 1 Y3 Adding two amounts of money Sheet 2

Working at ARE / Greater Depth

Greater Depth could also find two pairs of stickers with a total greater than £1.

Day 1 Y4 Adding 2-digit and 3-digit numbers Sheet 3

Working towards ARE / Working at ARE

Day 1 Y4 Adding 2-digit and 3-digit numbers Sheet 4

Greater Depth

Day 2 Y3 Subtracting 2-digit numbers Sheet 1

Working towards ARE

Day 2 Y3 Subtracting 2-digit numbers Sheet 2

Working at ARE / Greater Depth

Day 2 Y4 Counting up Sheet 3

Working towards ARE

Day 2 Y4 Counting up Sheet 4

Working at ARE / Greater Depth

Day 3 Y3 Frog subtractions Sheet 1

Working towards ARE / Working at ARE

Day 3 Y3 Frog subtractions Sheet 2

Working at ARE / Greater Depth

Day 3 Y4 Finding change Sheet 3

Working towards ARE / Working at ARE

Day 3 Y4 Finding change Sheet 4

Greater Depth

Day 4 Y3 Strategies for subtracting 2-digit numbers Sheet 1

Working towards ARE

Day 4 Y3 Strategies for subtracting 2-digit numbers Sheets 2 and 3

Working at ARE / Greater Depth

Working at ARE can use landmarked lines (Sheet 3).

Greater Depth sketch their own number line jottings and complete the Challenge.

Day 4 Y4 Finding a difference Sheet 4

Working towards ARE

Day 4 Y4 Finding a difference Sheet 5

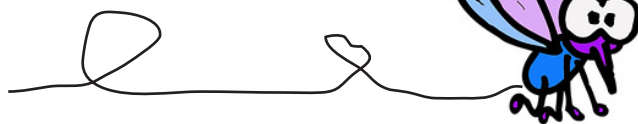
Working at ARE / Greater Depth

Adding pairs of 2-digit numbers

Sheet 1



1	2	3	4	5	6	7	8	9	10
11	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



Draw a line to show how spider and fly help you to work out these additions:

1. $54 + 21 =$
2. $72 + 22 =$
3. $54 + 35 =$
4. $12 + 77 =$
5. $23 + 55 =$
6. $43 + 21 =$
7. $32 + 47 =$
8. $28 + 12 =$

Adding two amounts of money

Sheet 2

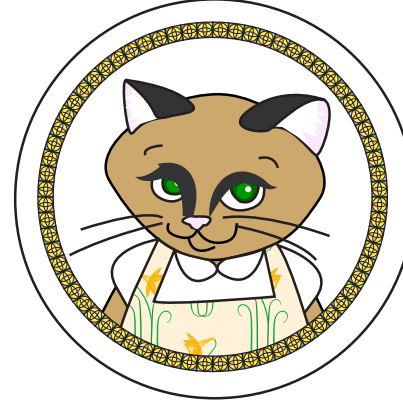
You have £1 pocket money to spend. Which two stickers can you buy? Find as many pairs as you can.



70p



27p



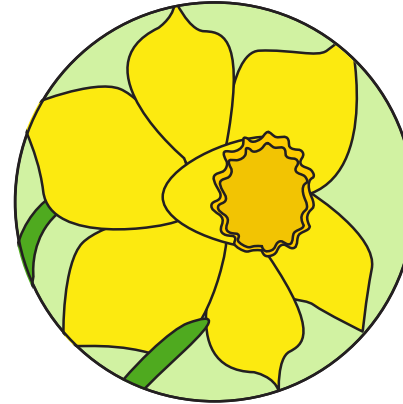
73p



23p



41p



59p

Adding 2-digit and 3-digit numbers

Sheet 3

+	25	40
20		
32		

+	35	45
22		
53		

+	28	58
23		
32		

+	75	46
27		
31		

+	70	85
36		
24		

+	89	96
27		
39		

$134 + 19 =$

$34 + 562 =$

$244 + 29 =$

$326 + 51 =$

$423 + 76 =$

$158 + 99 =$

$384 + 104 =$

$631 + 49 =$

Challenge

Find a quick way to complete the chain addition below!

$204 + 21 + 31 + 41 + 51 + 61 =$

Explain how you did it!

Adding 2-digit and 3-digit numbers

Sheet 4

+	?	80
25	78	105
?	115	142

$$\boxed{} - 19 = 115$$

$$134 + 562 = \boxed{}$$

$$\boxed{} - 26 = 373$$

$$326 + 74 = \boxed{}$$

$$423 + 87 = \boxed{}$$

$$458 + 99 = \boxed{}$$

$$384 + 35 = \boxed{}$$

$$\boxed{} - 49 = 248$$

Challenge

Find a quick way to complete the chain addition below!

$$204 + 99 + 89 + 79 + 69 + 59 =$$

Explain how you did it!

Subtracting 2-digit numbers

Sheet 1

1. $56 - 24 =$

2. $98 - 45 =$

3. $75 - 34 =$

4. $69 - 53 =$

5. $46 - 20 =$

$46 - 19 =$

6. $75 - 20 =$

$75 - 19 =$

7. $58 - 20 =$

$58 - 19 =$

8. $84 - 20 =$

$84 - 19 =$

Subtracting 2-digit numbers

Sheet 2

1. $76 - 34 =$

2. $98 - 55 =$

3. $85 - 43 =$

4. $69 - 35 =$

5. $58 - 20 =$

$58 - 19 =$

6. $84 - 20 =$

$84 - 19 =$

7. $95 - 30 =$

$95 - 29 =$

8. $76 - 30 =$

$76 - 29 =$

9. $82 - 40 =$

$82 - 39 =$

10. $73 - 40 =$

$73 - 39 =$

Counting up

Sheet 3

Practise using counting up to solve these subtractions.
Sketch empty number lines to show your steps.

$712 - 655$

$623 - 589$

$535 - 478$

$615 - 575$

$722 - 684$

$525 - 449$

$616 - 535$

$607 - 569$

$925 - 795$

$814 - 685$

Counting up

Sheet 4

Sketch an empty number line to help you calculate these subtractions.

1. $745 - 588$

2. $762 - 584$

3. $925 - 767$

4. $623 - 489$

5. $755 - 448$

6. $826 - 682$

7. $535 - 378$

8. $756 - 437$

9. $537 - 373$

10. $615 - 476$

11. $634 - 469$

12. $1002 - 735$

Challenge

Subtract 989 from 1000. Then subtract 878 from 1000. Then 767, then 656 etc. each from 1000.
Describe the pattern of the answers.

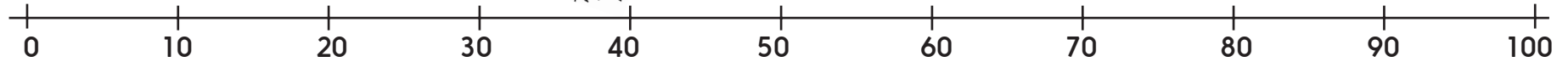
Frog subtractions

Sheet 1

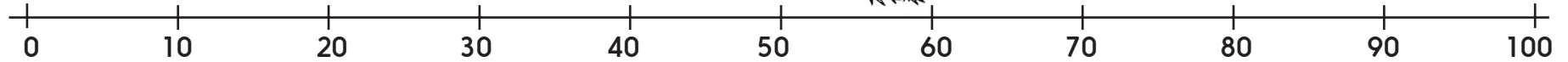
1. $64 - 47 =$



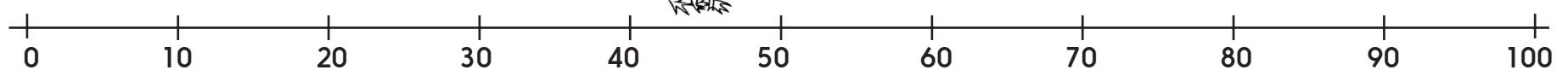
2. $53 - 38 =$



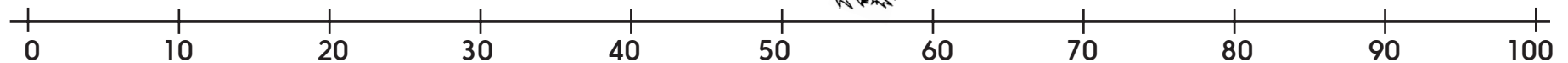
3. $85 - 59 =$



4. $72 - 45 =$



5. $91 - 56 =$



Frog subtractions

Sheet 2



1. $64 - 47$

2. $53 - 38$

3. $85 - 59$

4. $72 - 45$

5. $91 - 56$

6. $52 - 27$

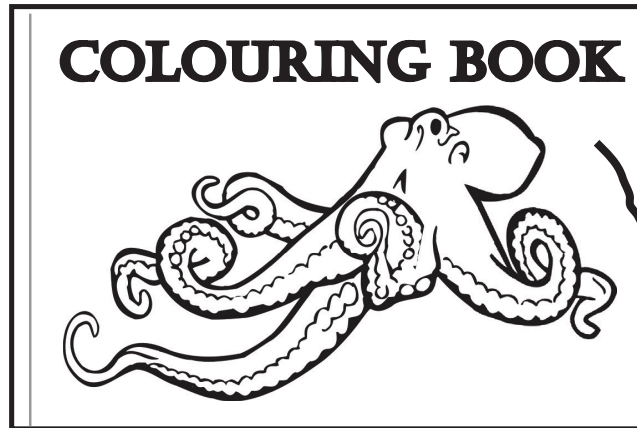
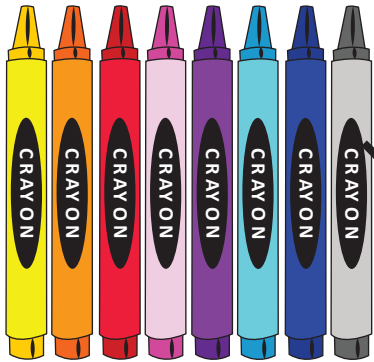
7. $95 - 48$

8. $83 - 36$

Use addition to check three of your subtractions.

Finding change

Sheet 3



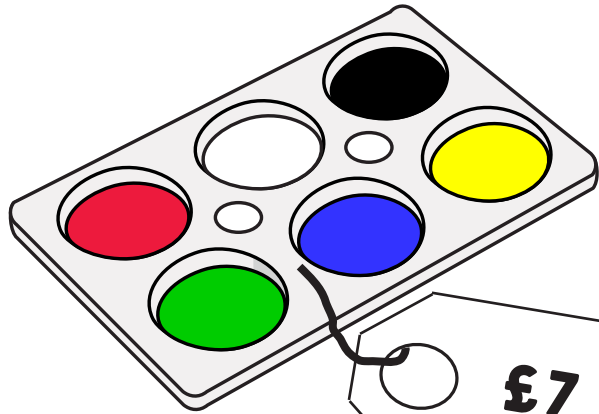
Find the change from £5 for each of these six prices.

Challenge

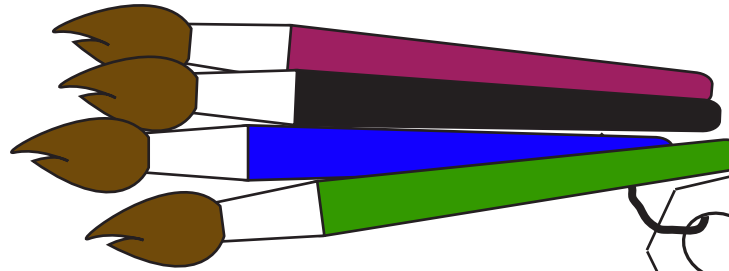
I spend £2.42. Do I have enough money left to buy a colouring book?

Finding change

Sheet 4



£7.79



£5.85

£6.69

£8.29

£7.56

£5.34

Find the change from £10 for each of these six prices.

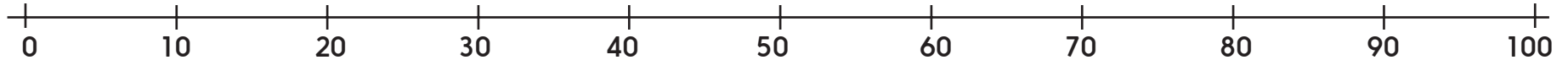
Challenge

I use a £20 note and buy an item for £10.13. My change is £9.87 which has consecutive digits 9, 8, 7.
Can you find other prices where my change from £20 would be a number with consecutive digits?

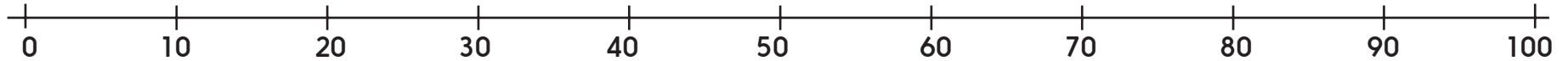
Strategies for subtracting 2-digit numbers

Sheet 1

Use Frog to work out $64 - 58$.



Use counting back to work out $64 - 9$.



Choose two subtractions to work out using Frog, and two to work out using counting back:

$42 - 39$

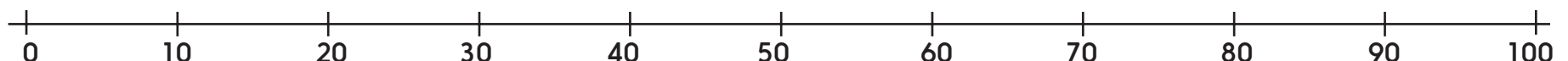
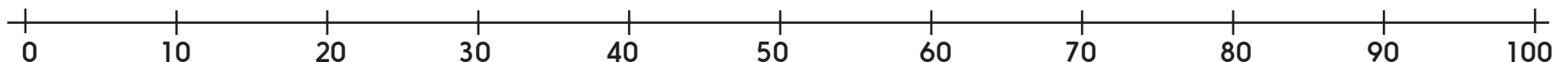
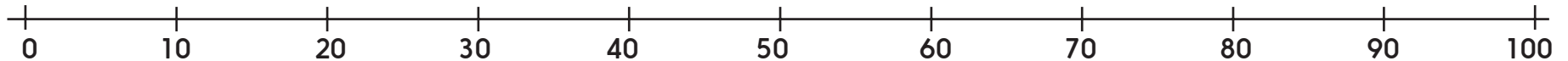
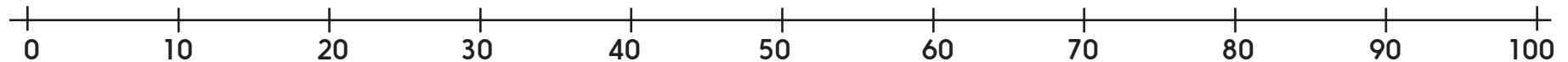
$42 - 5$

$83 - 78$

$83 - 11$

$54 - 20$

$54 - 47$



Strategies for subtracting 2-digit numbers

Sheet 2

Which strategy will you use? **Frog** or **Counting Back**?

Write these two headings in your book, and write the subtractions under each. Work out each answer.

$$58 - 11 =$$

$$88 - 75 =$$

$$77 - 9 =$$

$$45 - 13 =$$

$$34 - 21 =$$

$$95 - 33 =$$

$$98 - 49 =$$

$$98 - 14 =$$

$$74 - 37 =$$

When is it more efficient to use Frog?

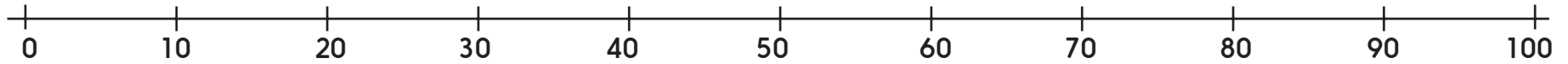
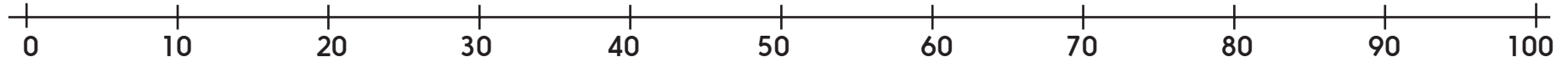
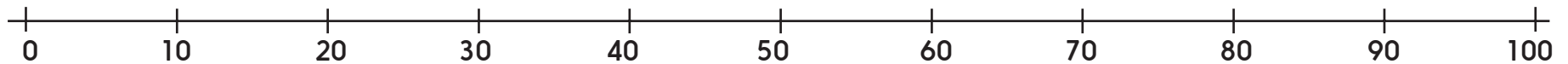
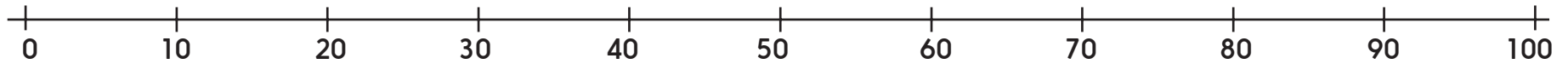
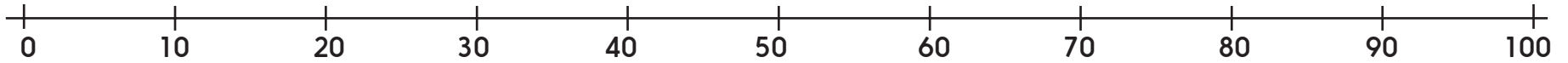
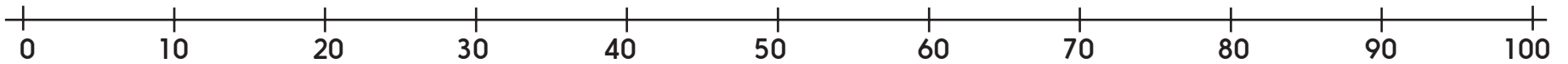
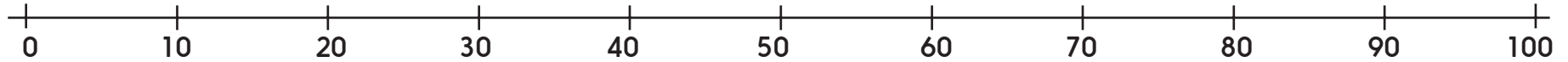
Challenge

Write some more examples in each column in your book.

Strategies for subtracting 2-digit numbers

Sheet 3

Use these number lines to help you work out the answers to Sheet 2.



Finding a difference

Sheet 4

Find the difference in price between each pair of items:

Item	www.techy.co.uk	www.itgadgets.co.uk	Difference in price
2 GB memory stick	£9.49	£8.99	
Travel mouse	£12.99	£13.25	
100 blank CDs	£10.15	£9.79	
Phone sock	£6.10	£5.89	
Torch	£7.99	£8.49	
Mouse mat	£4.19	£3.90	

Which item has the greatest difference in price?

And the least difference?

If you could only visit one shop, which would you choose and why?

Finding a difference

Sheet 5

Find the difference in price between each pair of items:

Item	www.techy.co.uk	www.itgadgets.co.uk	Difference in price
2 GB memory stick	£9.49	£8.25	
Travel mouse	£12.99	£13.49	
100 blank CDs	£10.75	£9.65	
Phone sock	£6.79	£5.25	
Torch	£7.89	£8.49	
Mouse mat	£4.75	£3.89	

Which item has the greatest difference in price? And the least difference?

Challenge

How much cheaper is it to 'shop around' rather than order from just one of the online stores?

Addition and subtraction

Answers

Day 1 Y3 Adding pairs of 2-digit numbers Sheet 1

1. $54 + 21 = 75$
2. $72 + 22 = 94$
3. $54 + 35 = 89$
4. $12 + 77 = 89$
5. $23 + 55 = 78$
6. $43 + 21 = 64$
7. $32 + 47 = 79$
8. $28 + 12 = 40$

Day 1 Y3 Adding two amounts of money Sheet 2

Possible combinations:

- $73\text{p} + 27\text{p} = \text{£}1$
- $73\text{p} + 23\text{p} = 96\text{p}$
- $70\text{p} + 27\text{p} = 97\text{p}$
- $70\text{p} + 23\text{p} = 93\text{p}$
- $59\text{p} + 41\text{p} = \text{£}1$
- $59\text{p} + 27\text{p} = 86\text{p}$
- $59\text{p} + 23\text{p} = 82\text{p}$
- $41\text{p} + 27\text{p} = 68\text{p}$

Day 1 Y4 Adding two 2-digit and 3-digit numbers Sheet 3

+	25	40
20	45	60
32	57	72

+	35	45
22	57	67
53	88	98

+	28	58
23	51	81
32	60	90

+	75	46
27	102	73
31	106	77

+	70	85
36	106	121
24	94	109

+	89	96
27	116	123
39	128	135

- $134 + 19 = 153$
- $244 + 29 = 273$
- $423 + 76 = 499$
- $384 + 104 = 488$

- $34 + 562 = 596$
- $326 + 51 = 377$
- $158 + 99 = 257$
- $631 + 49 = 680$

Addition and subtraction

Answers

Day 1 Y4 Adding two 2-digit and 3-digit numbers Sheet 3 continued

Challenge

Find a quick way to complete the chain addition below!

$$204 + 21 + 31 + 41 + 51 + 61 = 409$$

Round down to nearest 10 and then add 5.

Day 1 Y4 Adding 2-digit and 3-digit numbers Sheet 4

+	53	80
25	78	105
62	115	142

$$134 - 19 = 115$$

$$399 - 26 = 373$$

$$423 + 87 = 510$$

$$384 + 35 = 419$$

$$134 + 562 = 696$$

$$326 + 74 = 400$$

$$458 + 99 = 557$$

$$297 - 49 = 248$$

Challenge

Find a quick way to complete the chain addition below!

$$204 + 99 + 89 + 79 + 69 + 59 = 599$$

Round up to nearest 10 and then subtract 5.

Day 2 Y3 Subtracting 2-digit numbers Sheet 1

1. $56 - 24 = 32$

2. $98 - 45 = 53$

3. $75 - 34 = 41$

4. $69 - 53 = 16$

5. $46 - 20 = 26$

$$46 - 19 = 27$$

6. $75 - 20 = 55$

$$75 - 19 = 56$$

7. $58 - 20 = 38$

$$58 - 19 = 39$$

8. $84 - 20 = 64$

$$84 - 19 = 65$$

Day 2 Y3 Subtracting 2-digit numbers Sheet 2

1. $76 - 34 = 42$

2. $98 - 55 = 43$

3. $85 - 43 = 42$

4. $69 - 35 = 34$

5. $58 - 20 = 38$

$$58 - 19 = 39$$

6. $84 - 20 = 64$

$$84 - 19 = 65$$

7. $95 - 30 = 65$

$$95 - 29 = 66$$

8. $76 - 30 = 46$

$$76 - 29 = 47$$

9. $82 - 40 = 42$

$$82 - 39 = 43$$

10. $73 - 40 = 33$

$$73 - 39 = 34$$

Addition and subtraction

Answers

Day 2 Y4 Counting up Sheet 3

$712 - 655 = 57$

$535 - 478 = 57$

$722 - 684 = 38$

$616 - 535 = 81$

$925 - 795 = 130$

$623 - 589 = 34$

$615 - 575 = 40$

$525 - 449 = 76$

$607 - 569 = 38$

$814 - 685 = 129$

Day 2 Y4 Counting up Sheet 4

$1. \quad 745 - 588 = 157$

$3. \quad 925 - 767 = 158$

$5. \quad 755 - 448 = 307$

$7. \quad 535 - 378 = 157$

$9. \quad 537 - 373 = 164$

$11. \quad 634 - 469 = 165$

$2. \quad 762 - 584 = 178$

$4. \quad 623 - 489 = 134$

$6. \quad 826 - 682 = 144$

$8. \quad 756 - 437 = 319$

$10. \quad 615 - 476 = 139$

$12. \quad 1002 - 735 = 267$

Challenge

$1000 - 989 = 11$

$1000 - 767 = 233$

$1000 - 565 = 455$

$1000 - 878 = 122$

$1000 - 656 = 344$

Watch out for the children using appropriate PV vocabulary in their explanations.

Day 3 Y3 Frog subtractions Sheet 1

$1. \quad 64 - 47 = 17$

$2. \quad 53 - 38 = 15$

$3. \quad 85 - 59 = 26$

$4. \quad 72 - 45 = 27$

$5. \quad 91 - 56 = 35$

Day 3 Y3 Frog subtractions Sheet 2

$1. \quad 64 - 47 = 17$

$2. \quad 53 - 38 = 15$

$3. \quad 85 - 59 = 26$

$4. \quad 72 - 45 = 27$

$5. \quad 91 - 56 = 35$

$6. \quad 52 - 27 = 25$

$7. \quad 95 - 48 = 47$

$8. \quad 83 - 36 = 47$

Day 3 Y4 Finding change Sheet 3

$\text{Colouring pencils: } \pounds 5.00 - \pounds 3.79 = \pounds 1.21$

$\text{Colouring book: } \pounds 5.00 - \pounds 2.68 = \pounds 2.32$

$\text{Ticket 1: } \pounds 5.00 - \pounds 2.85 = \pounds 2.15$

$\text{Ticket 2: } \pounds 5.00 - \pounds 3.39 = \pounds 1.61$

$\text{Ticket 3: } \pounds 5.00 - \pounds 1.78 = \pounds 3.22$

$\text{Ticket 4: } \pounds 5.00 - \pounds 2.22 = \pounds 2.78$

Challenge

No. Spending $\pounds 2.42$ only leaves you $\pounds 2.58$, which is not enough for a colouring book that costs $\pounds 2.68$.

Addition and subtraction

Answers

Day 3 Y4 Finding change Sheet 4

Paint set: £10.00 – £7.79 = £2.21

Brushes: £10.00 – £5.85 = £4.15

Ticket 1: £10.00 – £6.69 = £3.31

Ticket 2: £10.00 – £8.29 = £1.71

Ticket 3: £10.00 – £7.56 = £2.44

Ticket 4: £10.00 – £5.34 = £4.66

Challenge

Other prices with consecutive digits:

£20 – £18.77 = £1.23

£20 – £17.66 = £2.34

£20 – £16.55 = £3.45

£20 – £15.44 = £4.56

£20 – £14.33 = £5.67

£20 – £13.22 = £6.78

£20 – £12.11 = £7.89

£20 – £16.79 = £3.21

£20 – £15.68 = £4.32

£20 – £14.57 = £5.43

£20 – £13.46 = £6.54

£20 – £12.35 = £7.65

£20 – £11.24 = £8.76

£20 – £10.13 = £9.87

£20 – £17.90 = £2.10

£20 – £7.66 = £12.34

Day 4 Y3 Strategies for subtracting 2-digit numbers Sheet 1

64 – 58 = 6

64 – 9 = 55

42 – 39 = 3

42 – 5 = 37

83 – 78 = 5

83 – 11 = 72

54 – 20 = 34

54 – 47 = 7

Day 4 Y3 Strategies for subtracting 2-digit numbers Sheet 2 and 3

58 – 11 = 47

88 – 75 = 13

77 – 9 = 68

45 – 13 = 32

34 – 21 = 13

95 – 33 = 62

98 – 49 = 49

98 – 14 = 84

74 – 37 = 37

Allow children to explain their preference for counting back or Frog. They should recognise that counting back is more straightforward when the digits in the larger number are both greater than those in the smaller number, e.g. 98 – 14.

Addition and subtraction

Answers

Day 4 Y4 Finding a difference Sheet 4

Item	www.techy.co.uk	www.it-gadgets.co.uk	Difference in price
2 GB memory stick	£9.49	£8.99	£0.50
Travel mouse	£12.99	£13.25	£0.26
100 blank CDs	£10.15	£9.79	£0.36
Phone sock	£6.10	£5.89	£0.21
Torch	£7.99	£8.49	£0.50
Mouse mat	£4.19	£3.90	£0.29

Greatest difference:
2GB memory stick and Torch

Least difference:
Phone sock

I would choose itgadgets. The total saving for techy is 76p, while the saving at itgadgets is £1.36.

Day 4 Y4 Finding a difference Sheet 5

Item	www.techy.co.uk	www.it-gadgets.co.uk	Difference in price
2 GB memory stick	£9.49	£8.25	£1.24
Travel mouse	£12.99	£13.49	£0.50
100 blank CDs	£10.75	£9.65	£1.10
Phone sock	£6.79	£5.25	£1.54
Torch	£7.89	£8.49	£0.60
Mouse mat	£4.75	£3.89	£0.86

Greatest difference:
Phone sock

Least difference:
Travel mouse

I would choose itgadgets as here I would save the most, £3.64 compared with techy.

Challenge

'Shopping around' gives a total saving of £5.84, though it might be less trouble to shop for everything at 'itgadgets' as the total saving there is £4.74, with just another £1.10 to be saved on the other two items at 'techy'.