

Year 2 and Year 3 Addition and Subtraction Unit 4 (23206)

Additional teacher instructions for practice sheets

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

Day 1 Y2 Spider counting Sheet 1

Working towards ARE

Day 1 Y2 Spider counting Sheet 2

Working at ARE / Greater Depth

Greater Depth complete this first and then move on to Sheet 3

Day 1 Y2 Place value Sheet 3

Greater Depth

Day 1 Y3 Adding 1, 10 or 100 Sheet 4

Working towards ARE / Working at ARE / Greater Depth

Working towards ARE use arrow cards or place value equipment to help and only complete odd numbered questions.

Working at ARE complete the sheet and the first part of the Challenge if time.

Greater Depth complete the Challenge

Day 2 Y2 The cake shop Sheet 1

Working towards ARE

Day 2 Y2 The clothes shop Sheet 2

Working at ARE

Day 2 Y2 Problem solving Sheet 3

Greater Depth

Day 2 Y3 Adding or subtracting 1, 10 or 100 Sheet 4

Working towards ARE / Working at ARE / Greater Depth

Working towards ARE use arrow cards or place value equipment to help them and do at least the first six.

Working at ARE complete the sheet.

Greater Depth have a go at the Challenge.

Day 3 Y2 What's the calculation? Sheet 1

Working towards ARE

Day 3 Y2 Adding and subtracting 20, 30, 40 and 50 Sheet 2

Working at ARE / Greater Depth

Year 2 and Year 3 Addition and Subtraction Unit 4 (23206)

Additional teacher instructions for practice sheets continued

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

Day 3 Y3 Adding multiples of 1s, 10s and 100s to 3-digit numbers Sheet 3

Working towards ARE / Working at ARE / Greater Depth

Working towards ARE complete Set A using place value grids to help. Children confident with Set A can attempt Set B.

Working at ARE complete Set A then Set B.

Greater Depth complete Set B, then Set C.

Day 4 Y2 Add and subtract multiples of 10 Sheet 1

Working towards ARE

Day 4 Y2 Add and subtract multiples of 10 Sheet 2

Working at ARE

Day 4 Y2 Add and subtract multiples of 10 Sheet 3

Greater Depth

Day 4 Y3 Subtracting multiples of 1s, 10s and 100s from 3-digit numbers Sheet 4

Working towards ARE / Working at ARE / Greater Depth

Working towards ARE complete all of Section A and as many of section B as they can.

Working at ARE start at Section A Q5 and work through to at least the end of section B.

Greater Depth start with Section B. (Note that the last question requires children to change 2 columns).

Spider counting

Sheet 1

These are pieces of a 1 - 100 grid.
Write the missing numbers in the squares.
The first one has been done for you.



26	27
36	37
46	47

12	13

23	24

45	46

56	57

67	68

81	82

32	33

58	59

19	20

Challenge

Fill in the missing numbers.

3, 13, , 33, 43, , , 73

19, 29, , , 59, 69,

27, , , 57, , , 87

Spider counting

Sheet 2

These are pieces of a 1 - 100 grid.
Write the missing numbers in the squares.

26	
36	37
46	

This one is half done!



23	24

45	46

67	68

81	82

72	73

58	59

19	20

Challenge

Fill in the missing numbers

$$47 + \square = 67$$

$$\square + 20 = 61$$

$$35 + \square = 65$$

$$\square - 20 = 48$$

$$42 - \square = 22$$

Place value

Sheet 3

Match the place value cards to the correct answer.

$$\begin{array}{|c|c|} \hline 2 & 6 \\ \hline \end{array} + 10 = \square$$

46
27
36

$$\begin{array}{|c|c|} \hline 4 & 9 \\ \hline \end{array} + 10 = \square$$

59
69
50

$$\begin{array}{|c|c|} \hline 6 & 1 \\ \hline \end{array} + 10 = \square$$

17
62
71

$$\begin{array}{|c|c|} \hline 5 & 4 \\ \hline \end{array} + 10 = \square$$

45
64
74

$$\begin{array}{|c|c|} \hline 8 & 2 \\ \hline \end{array} + 10 = \square$$

92
29
72

Challenge

Write your own additions where you add 11 to a number and the answer is a multiple of 10. How many can you write?

Adding 1, 10 or 100

Sheet 4

1) $465 + 10 =$

2) $572 + 10 =$

3) $814 + 10 =$

4) $402 + 20 =$

5) $261 + 100 =$

6) $739 + 1 =$

7) $332 + 1 =$

8) $399 + 1 =$

9) $628 + 100 =$

10) $865 + 20 =$

11) $904 + 40 =$

12) $698 + 10 =$

13) $699 + 1 =$

14) $790 + 10 =$

15) $517 + 10 =$

Challenge

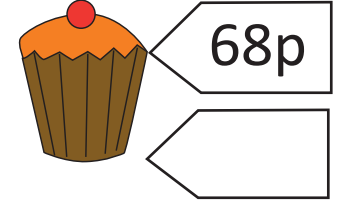
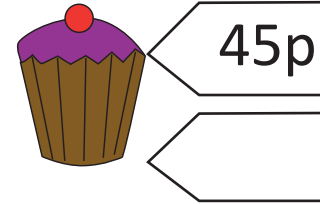
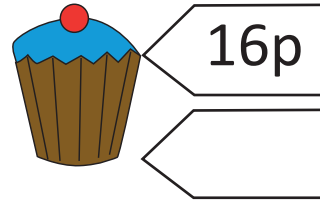
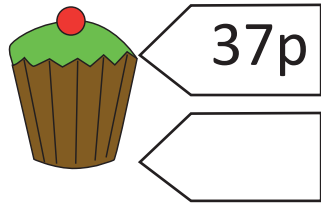
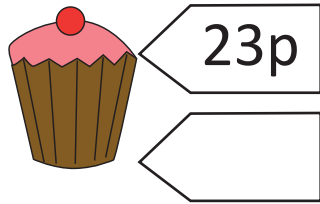
How many times can I add 110 to 209 before I get over 1000?

What 3-digit number should I start with to enable me to add 111 eight times and get 998?

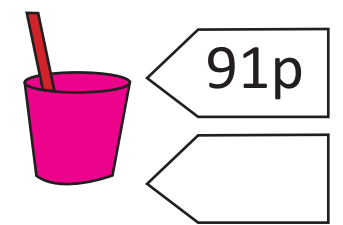
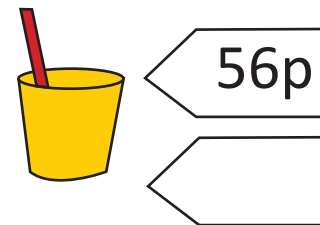
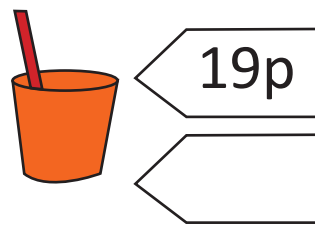
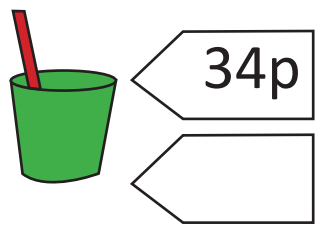
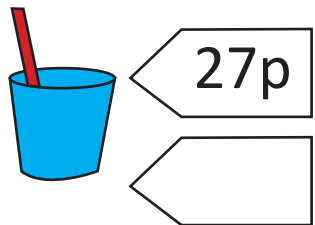
The cake shop

Sheet 1

Use coins to match each price. The cakes are now 10p more. Write the new prices.



Draw the 10p and 1p coins you would use to pay for the drinks. The drinks are now 10p less! Write the new prices.



Challenge

Fill in the missing numbers.

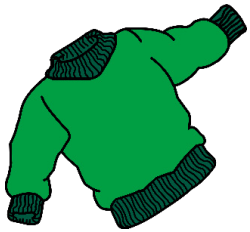
62, , , 32, 22, ,

89, , 69, 59, , 39

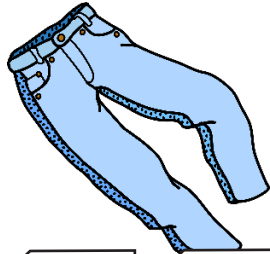
76, 66, , 46, , 26

The clothes shop Sheet 2

It is cold! The shop has added £10 to their prices. Write the new prices.



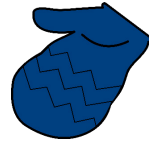
£89



£67



£23



£45

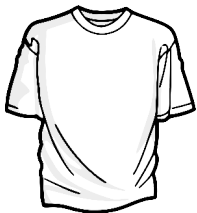


£58



£84

The shop does not need Summer clothes. They have a sale. They take £10 off each price. Write the new prices.



£97



£54



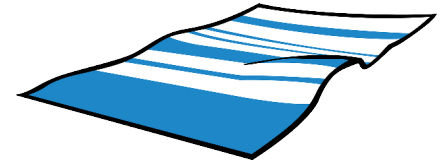
£49



£35



£62



£81

Challenge

Write the missing numbers.

$$32 + \square = 43$$

$$57 + \square = 77$$

$$76 - \square = 66$$

$$\square - 12 = 47$$

Problem solving

Sheet 3

Solve these problems.

- 1) Sophie has 21p. Tom has 10p more.
How much money does Tom have?
- 2) Amir has 33p. Uzma has 20p more.
How much does Uzma have?
- 3) Ben has 67p. Poppy has 10p less.
How much does Poppy have?
- 4) Adam has 85p. Scarlett has 10p less.
How much does Scarlett have?
- 5) Sam has 79p. His brother Charlie has 20p less.
How much does Charlie have?
- 6) Hussan has 54p. His sister Farheen has 20p more.
How much does Farheen have?
- 7) What number adds to 63 to make 83?
What number is subtracted from 83 to give 73?

Challenge

I am a number less than 100.
My digits add to 10.
If you add 10 to me, my first digit is one less than my second digit.
What number am I?

Adding or subtracting 1, 10 or 100

Sheet 4

1) $457 + \boxed{} = 458$

2) $239 + \boxed{} = 249$

3) $562 + \boxed{} = 662$

4) $429 + \boxed{} = 439$

5) $863 + \boxed{} = 963$

6) $299 + \boxed{} = 300$

7) $392 + \boxed{} = 402$

8) $673 + \boxed{} = 684$

9) $591 + \boxed{} = 601$

10) $735 + \boxed{} = 845$

11) $595 - \boxed{} = 584$

12) $761 - \boxed{} = 651$

13) $483 - \boxed{} = 382$

14) $705 - \boxed{} = 695$

Challenge

Try four different 3-digit numbers in this chain.

$$\boxed{} + 10 - 100 + 1 - 10 + 100 = \boxed{}$$

Now write the start number and the answer without using the chain.
Explain what is happening.

What's the calculation?

Sheet 1

Look at the marks that Spider has made on the 1 - 100 grid.
Write down the possible calculations that Spider was working on.

23	24	25
33	34	35
43	44	45
53	54	55

$24 + 30 = 54$
$54 - 30 = 24$

a)

15	16	17
25	26	27
35	36	37

b)

12	13	14
22	23	24
32	33	34
42	43	44

c)

36	37	38
46	47	48
56	57	58
66	67	68

d)

41	42	43
51	52	53
61	62	63
71	72	73

e)

65	66	67
75	76	77
85	76	87
95	96	97

f)

54	55	56
64	65	66
74	75	76

g)

36	37	38
46	47	48
56	57	58
66	67	68
76	77	78

h)

47	48	49
57	58	59
67	68	69
77	78	79
87	88	89
97	98	99

Adding and subtracting 20, 30, 40 and 50

Sheet 2

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
101	102	103	104	105	106	107	108	109	110

- 1) $36 + 20 =$
- 2) $57 + 20 =$
- 3) $41 + 30 =$
- 4) $64 + 30 =$
- 5) $38 + 40 =$
- 6) $42 + 50 =$
- 7) $99 - 20 =$
- 8) $83 - 20 =$
- 9) $58 - 30 =$
- 10) $60 - 30 =$
- 11) $87 - 40 =$
- 12) $73 - 50 =$

Challenge

Start on 9. Add 10, then add 20, then add 30, etc.
Stop when you get over 100.
Start on 4 and do the same.

Predict (without doing it) what you would get if you started on 1.
What number would you have to start on to subtract 10, then 20, then 30, then 40 and end up on 5?

Adding multiples of 1s, 10s and 100s to 3 digit numbers

Sheet 3

Set A

$462 + 4 = \boxed{}$

$635 + 3 = \boxed{}$

$371 + 20 = \boxed{}$

$527 + 40 = \boxed{}$

$286 + 200 = \boxed{}$

$158 + 300 = \boxed{}$

Set B

$563 + 400 = \boxed{}$

$381 + 8 = \boxed{}$

$214 + 60 = \boxed{}$

$427 + 70 = \boxed{}$

$644 + 5 = \boxed{}$

$195 + 800 = \boxed{}$

$286 + 500 = \boxed{}$

$439 + 50 = \boxed{}$

Set C

$438 + 7 = \boxed{}$

$345 + 60 = \boxed{}$

$722 + 9 = \boxed{}$

$927 + 6 = \boxed{}$

$653 + 50 = \boxed{}$

$584 + 40 = \boxed{}$

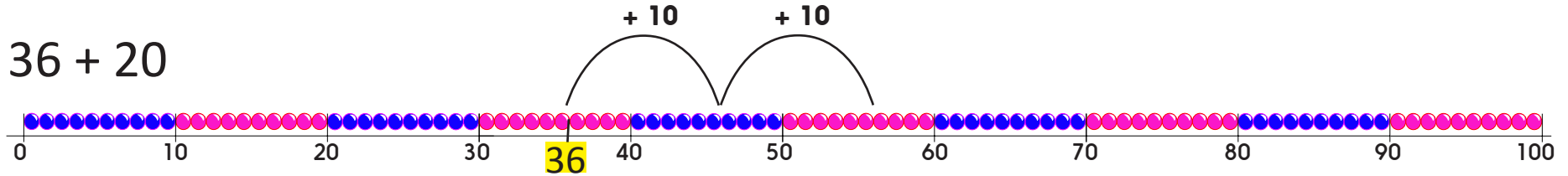
Challenge

The same number of multiples of 100, 10 and 1 is added to a mystery 3-digit number. The answer is 490. There are 3 possible numbers it could be. What are they?

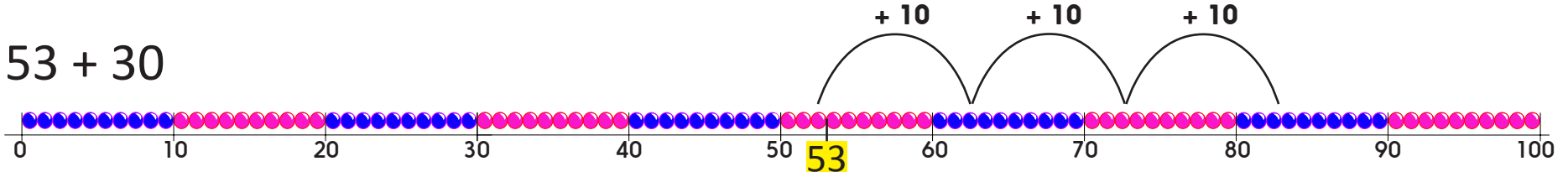
Add and subtract multiples of 10

Sheet 1

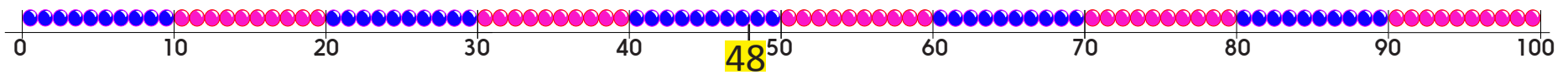
$36 + 20$



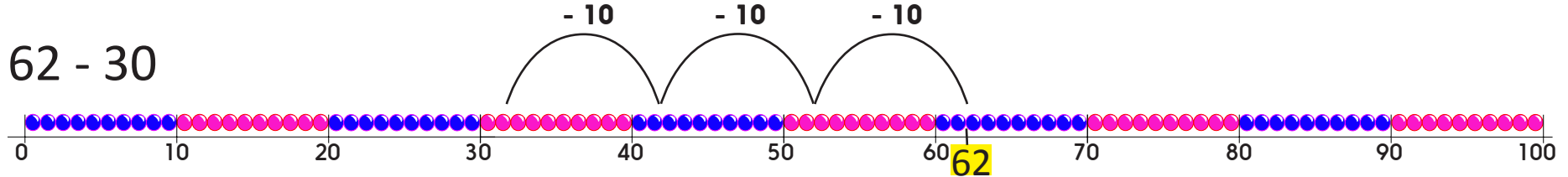
$53 + 30$



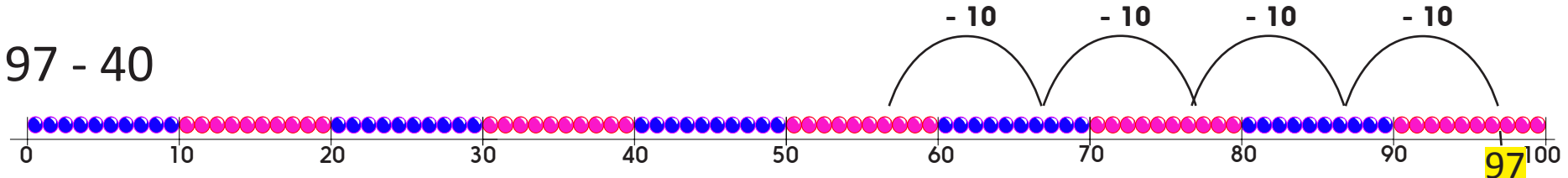
$48 + 20$



$62 - 30$



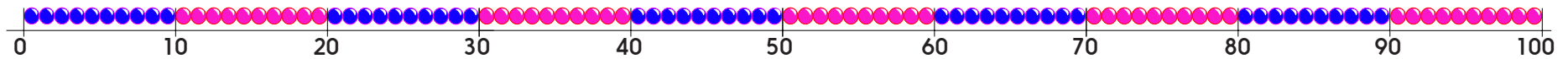
$97 - 40$



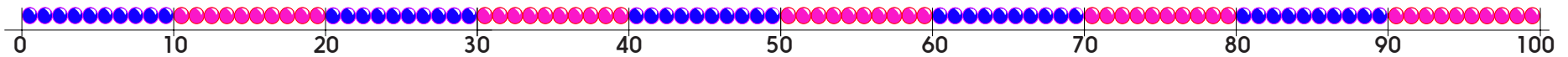
Add and subtract multiples of 10

Sheet 2

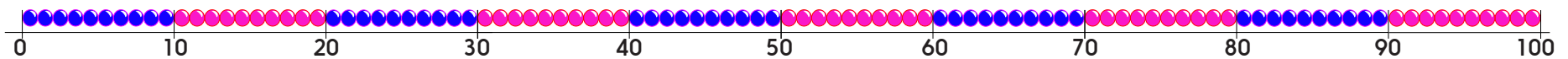
$72 - 20$



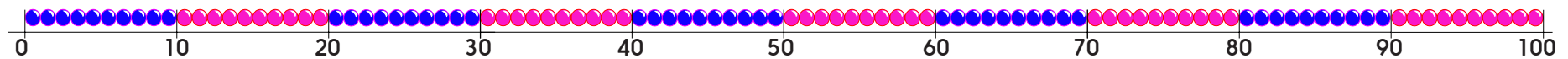
$37 + 20$



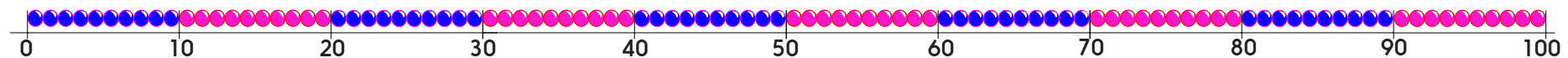
$76 - 20$



$45 + 30$



$41 + 50$



Add and subtract multiples of 10

Sheet 3

Solve these problems.

a) $23 + 30 =$

b) $45 + 20 =$

c) $54 - 30 =$

d) $67 - 20 =$

e) $39 + 40 =$

f) $41 + 50 =$

g) $92 - 40 =$

h) $85 - 50 =$

i) $28 + 50 =$

j) $76 - 40 =$

k) $62 + 20 =$

l) $74 - 30 =$

m) $29 + 50 =$

n) $81 - 50 =$

Calculate the missing numbers.

a) $34 + \square = 54$

b) $29 + \square = 69$

c) $97 - \square = 77$

d) $89 - \square = 69$

e) $55 + \square = 85$

f) $61 - \square = 11$

g) $\square + 40 = 52$

h) $\square + 30 = 63$

i) $\square - 20 = 57$

j) $\square - 40 = 29$

Subtracting 1s, 10s or 100s from 3-digit numbers

Sheet 4

Section A

1. $45 - 2 =$
2. $45 - 20 =$
3. $74 - 3 =$
4. $74 - 30 =$
5. $56 - 4 =$
6. $56 - 40 =$
7. $78 - 6 =$
8. $78 - 60 =$

Section B

1. $432 - 1 =$
2. $432 - 10 =$
3. $432 - 100 =$
4. $546 - 2 =$
5. $546 - 20 =$
6. $546 - 200 =$
7. $658 - 4 =$
8. $658 - 40 =$
9. $658 - 400 =$
10. $979 - 6 =$
11. $979 - 60 =$
12. $979 - 600 =$

Section C

1. 84 people are on a coach, 20 get off in Manchester. How many are left on the coach?
2. 76 people are on a coach, 4 get off in Birmingham. How many are left on the coach?
3. 367 people are on an aeroplane, 200 get off in Singapore. How many are left on the aeroplane?
4. 453 people are on an aeroplane, 40 get off in New York. How many are left on the aeroplane?
5. 569 people are on an aeroplane, 8 get off in Milan. How many are left on the aeroplane?
6. 625 people are on an aeroplane, 30 get off in Tokyo. How many are left on the aeroplane?

Addition and Subtraction

Answers

Day 1 Y2 Spider counting Sheet 1

2	3	13	14	35	36
12	13	23	24	45	46
22	23	33	34	55	56

46	47	57	58	71	72
56	57	67	68	81	82
66	67	77	78	91	92

22	23	48	49	9	10
32	33	58	59	19	20
42	43	68	69	29	30

Challenge

3, 13, 23, 33, 43, 53, 63, 73

19, 29, 39, 49, 59, 69, 79

27, 37, 47, 57, 67, 77, 87

Day 1 Y2 Spider counting Sheet 2

26	27	13	14
36	37	23	24
46	47	33	34

35	36	57	58	71	72
45	46	67	68	81	82
55	56	77	78	91	92

62	63	48	49	9	10
72	73	58	59	19	20
82	83	68	69	29	30

Challenge

$47 + 20 = 67$

$35 + 30 = 65$

$42 - 20 = 22$

$41 + 20 = 61$

$68 - 20 = 48$

Day 1 Y2 Place Value Sheet 3

2	6
---	---

 + 10 =

36

Addition and Subtraction

Answers

Day 1 Y2 Place Value Sheet 3 continued

$$\begin{array}{|c|c|} \hline 4 & 9 \\ \hline \end{array} + 10 = \begin{array}{|c|} \hline 59 \\ \hline \end{array}$$

$$\begin{array}{|c|c|} \hline 6 & 1 \\ \hline \end{array} + 10 = \begin{array}{|c|} \hline 71 \\ \hline \end{array}$$

$$\begin{array}{|c|c|} \hline 5 & 4 \\ \hline \end{array} + 10 = \begin{array}{|c|} \hline 64 \\ \hline \end{array}$$

$$\begin{array}{|c|c|} \hline 8 & 2 \\ \hline \end{array} + 10 = \begin{array}{|c|} \hline 92 \\ \hline \end{array}$$

Challenge

Any additions where the units digit is 9 added to 11 will result in a multiple of 10.

Day 1 Y3 Adding 1, 10 or 100 Sheet 4

$1) 465 + 10 = 475$

$2) 572 + 10 = 582$

$3) 814 + 10 = 824$

$4) 402 + 20 = 422$

$5) 261 + 100 = 361$

$6) 739 + 1 = 740$

$7) 332 + 1 = 333$

$8) 399 + 1 = 400$

$9) 628 + 100 = 728$

$10) 865 + 20 = 885$

$11) 904 + 40 = 944$

$12) 698 + 10 = 708$

$13) 699 + 1 = 700$

$14) 790 + 10 = 800$

$15) 517 + 10 = 527$

Challenge

You can add 110 seven times before you go over 1000.
Start with 110 to add 111 eight times to make 998.

Day 2 Y2 The cake shop Sheet 1

10p more

23p

37p

16p

45p

68p

33p

47p

26p

55p

78p

10p less

27p

34p

19p

56p

91p

17p

24p

9p

46p

81p

Addition and Subtraction

Answers

Day 2 Y2 The cake shop Sheet 1 continued

Challenge

89, **79**, 69, 59, **49**, 39
62, **52**, **42**, 32, 22, **12**, **2**

76, 66, **56**, 46, **36**, 26

Day 2 Y2 The clothes shop Sheet 2



Challenge

32 + **11** = 43 57 + **20** = 77 76 - **10** = 66 **59** - 12 = 47

Day 2 Y2 Problem solving Sheet 3

- 1) **31p** 2) **53p** 3) **57p** 4) **75p** 5) **59p**
6) **74p** 7) **20, 10**

Challenge

I am a number less than 100.
My digits add to 10.
If you add 10 to me, my first digit is one less than my second digit.
What number am I?

46

Day 2 Y3 Adding or subtracting 1, 10 or 100 Sheet 4

- 1) **1** 8) **10**
2) **10** 9) **10**
3) **100** 10) **110**
4) **10** 11) **11**
5) **100** 12) **110**
6) **1** 13) **101**
7) **10** 14) **10**

Challenge

The start number has 1 added to it as the adding and subtracting 10 and 100 cancel out.

Addition and Subtraction

Answers

Day 3 Y2 What's the calculation? Sheet 1

a) $16 + 20 = 36$
 $36 - 20 = 16$

b) $13 + 30 = 43$
 $43 - 30 = 13$

c) $37 + 30 = 67$
 $67 - 30 = 37$

d) $42 + 30 = 72$
 $72 - 30 = 42$

e) $66 + 30 = 96$
 $96 - 30 = 66$

f) $55 + 20 = 75$
 $75 - 20 = 55$

g) $37 + 40 = 77$
 $77 - 40 = 37$

h) $48 + 50 = 98$
 $98 - 50 = 48$

Day 3 Y2 Adding and subtracting 20, 30, 40 and 50 Sheet 2

- | | |
|-------|--------|
| 1) 56 | 7) 79 |
| 2) 77 | 8) 63 |
| 3) 71 | 9) 28 |
| 4) 94 | 10) 30 |
| 5) 78 | 11) 47 |
| 6) 92 | 12) 23 |

Challenge

$$9 + 10 + 20 + 30 + 40 = 109$$

$$4 + 10 + 20 + 30 + 40 = 104$$

If you start with 1 you would get 101.

You would need to start on 105 to end up with 5, when subtracting.

Day 3 Adding multiples of 1s, 10s and 100s to 3-digit numbers Sheet 3

Set A

$$462 + 4 = 466 \quad 635 + 3 = 638 \quad 371 + 20 = 391 \quad 527 + 40 = 567$$

$$286 + 200 = 486 \quad 158 + 300 = 458$$

Set B

$$563 + 400 = 963 \quad 381 + 8 = 389 \quad 214 + 60 = 274 \quad 427 + 70 = 497$$

$$644 + 5 = 649 \quad 195 + 800 = 995 \quad 286 + 500 = 786 \quad 439 + 50 = 489$$

Set C

$$438 + 7 = 445 \quad 345 + 60 = 405 \quad 722 + 9 = 731 \quad 927 + 6 = 933$$

$$653 + 50 = 703 \quad 584 + 40 = 624$$

Challenge

The 3 possible mystery numbers are: $157 + 333$, $268 + 222$ or $379 + 111$.

Addition and Subtraction

Answers

Day 4 Y2 Add and subtract multiples of 10 Sheet 1

$36 + 20 = 56$

$53 + 30 = 83$

$48 + 20 = 68$

$62 - 30 = 32$

$97 - 40 = 57$

Day 4 Y2 Add and subtract multiples of 10 Sheet 2

$72 - 20 = 52$

$37 + 20 = 57$

$76 - 20 = 56$

$45 + 30 = 75$

$41 + 50 = 91$

Day 4 Y2 Add and subtract multiples of 10 Sheet 3

a) 53	b) 65	c) 24	d) 47
e) 79	f) 91	g) 52	h) 35
i) 78	j) 36	k) 82	l) 44
m) 79	n) 31		

a) $34 + 20 = 54$	b) $29 + 40 = 69$
c) $97 - 20 = 77$	d) $89 - 20 = 69$
e) $55 + 30 = 85$	f) $61 - 50 = 11$
g) $12 + 40 = 53$	h) $33 + 30 = 63$
i) $77 - 20 = 57$	j) $69 - 40 = 29$

Day 4 Subtracting multiples of 1s, 10s or 100s from 3-digit numbers Sheet 4

Section A	Section B	Section C
1. 43	1. 431	1. 64
2. 25	2. 422	2. 72
3. 71	3. 332	3. 167
4. 44	4. 544	4. 413
5. 52	5. 526	5. 561
6. 16	6. 346	6. 595
7. 72	7. 654	
8. 18	8. 618	
	9. 258	
	10. 973	
	11. 919	
	12. 379	