Y3/4 Addition and subtraction Unit 1 (34158)

Additional teacher instructions for practice sheets

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

Day 1 Y3 Balancing the scales Sheet 1
Working towards ARE

Day 1 Y3 Making 14 and 15 Sheet 2
Working at ARE / Greater Depth

Day 1 Y4 Adding 2-digit numbers Sheet 3
Working towards ARE / Working at ARE / Greater Depth

Day 2 Y3 Adding a 1-digit number to a 2- or 3-digit number Sheet 1
Working towards ARE / Working at ARE / Greater Depth
Working towards ARE try questions 1 to 12 in each set with support.
Working at ARE complete questions 1 to 12 in each set.
Greater Depth complete questions 5 to 16 in each set.
Encourage children to use number facts rather than counting on each time.
Give children 0-100 grids or 0 to 100 beaded lines if necessary (see resources).

Day 2 Y4 Adding a 1-digit to a 2- or 3-digit number Sheet 2
Working towards ARE / Working at ARE / Greater Depth
Working towards ARE complete questions 1 to 5.
Working at ARE complete questions 1 to 5 and the Challenge.
Greater Depth complete question 3 to 7 and the Challenge.

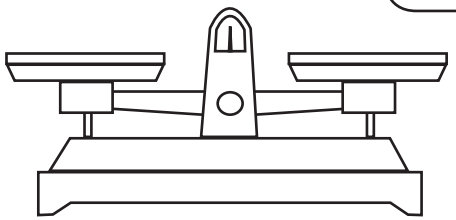
Day 3 Y3 Subtracting a 1-digit from a 2- or 3-digit number Sheet 1
Working towards ARE / Working at ARE / Greater Depth
Working towards ARE try questions 1 to 12 in each set with support.
Working at ARE complete questions 1 to 12 in each set.
Greater Depth complete questions 5 to 16 in each set.
Encourage children to use number facts rather than counting back in ones.
Give them 0 to 100 beaded lines if necessary (see resources).

Day 3 Y4 Subtracting a 1-digit number from a 2- or 3-digit number Sheet 2
Working towards ARE / Working at ARE / Greater Depth
Working towards ARE complete questions 1 to 5.
Working at ARE complete questions 1 to 5 and the Challenge.
Greater Depth complete question 3 to 7 and the Challenge.

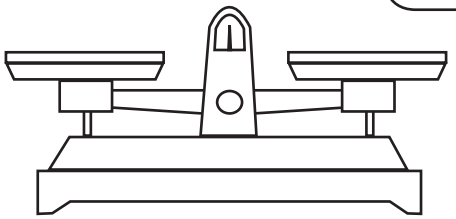
Balancing the scales

Sheet 1

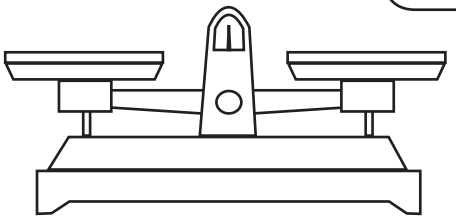
$6 + 8 = 5 + \square$



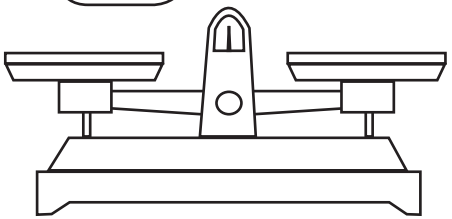
$9 + 5 = 6 + \square$



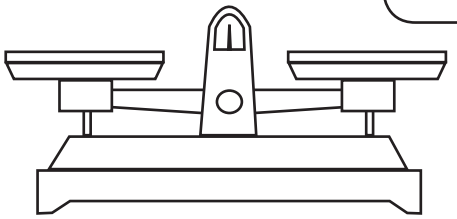
$7 + 7 = 4 + \square$



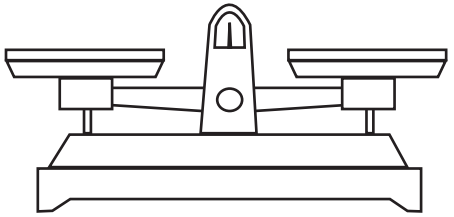
$7 + \square = 8 + 6$



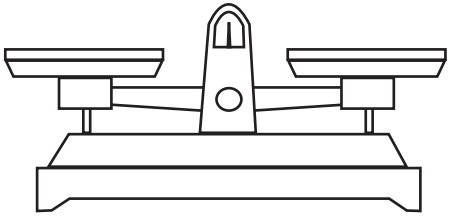
$10 + 4 = 9 + \square$



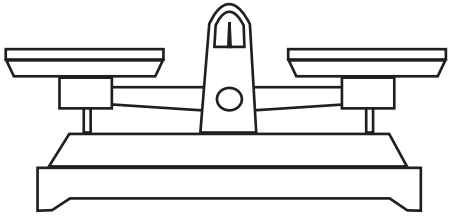
$8 + \square = 5 + 9$



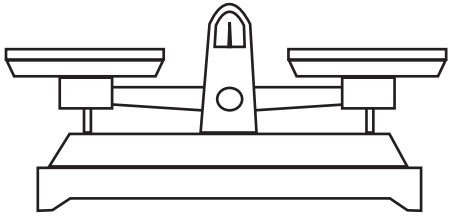
$11 + 3 = \square + 5$



$8 + \square = 12 + 2$



$13 + 1 = 9 + \square$



Making 14 and 15

Sheet 2

Making 14

$8 + \square = 14 + 0$

$16 - 2 = \square + 6$

$12 + 2 = \square + 4$

$\square + 5 = 1 + 13$

$\square - 3 = 4 + 10$

$\square + 7 = 15 - 1$

$\square + 9 = 7 + 7$

$9 + 5 = 20 - \square$

$6 + 8 = 11 + \square$

$10 + \square = 3 + 11$

Making 15

$10 + \square = 13 + 2$

$12 + 3 = \square + 6$

$\square + 9 = 8 + 7$

$\square + 5 = 2 + 13$

$19 - 4 = 11 + \square$

$\square + 12 = 6 + 9$

$0 + \square = 3 + 12$

$15 + 0 = 20 - \square$

$4 + \square = 16 - 1$

$\square + 14 = 4 + 11$

Challenge

Use three consecutive single digit numbers and add them, e.g. 1 + 2 + 3.
What is the largest possible total? Can you make 18?
How many possible totals can you find?
Which family of numbers is every total in?

Adding 2-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		

Adding a 1-digit to a 2- or 3-digit number

Sheet 1

Set A

1. 21 + 9 = ☐
2. 45 + 5 = ☐
3. 73 + 7 = ☐
4. 14 + 6 = ☐
5. 68 + 2 = ☐
6. 33 + 5 = ☐
7. 25 + 3 = ☐
8. 62 + 4 = ☐
9. 83 + 3 = ☐
10. 21 + 7 = ☐
11. 47 + 2 = ☐
12. 13 + 2 = ☐
13. 114 + 6 = ☐
14. 123 + 5 = ☐
15. 154 + 3 = ☐
16. 194 + 5 = ☐

Set B

1. 39 + 5 = ☐
2. 28 + 4 = ☐
3. 36 + 6 = ☐
4. 45 + 7 = ☐
5. 78 + 8 = ☐
6. 33 + 9 = ☐
7. 27 + 5 = ☐
8. 18 + 6 = ☐
9. 12 + 9 = ☐
10. 46 + 8 = ☐
11. 87 + 4 = ☐
12. 34 + 8 = ☐
13. 128 + 4= ☐
14. 144 + 6 = ☐
15. 119 + 6 = ☐
16. 175 + 6 = ☐

Challenge

How many possible pairs of numbers that add to make 90 are there, if one of the numbers must have 2-digits and the other is less than 10?

Adding a 1-digit to a 2- or 3-digit number

Sheet 2

1.	73 + 6 =	123 + 6 =	643 + 6 =
2.	64 + 4 =	254 + 4 =	784 + 4 =
3.	25 + 7 =	125 + 7 =	465 + 7 =
4.	43 + 9 =	343 + 9 =	773 + 9 =
5.	27 + 5 =	267 + 5 =	847 + 8 =
6.	245 + 6 =	785 + 6 =	495 + 6 =
7.	128 + 5 =	468 + 5 =	298 + 5 =

Challenge

When added to a number that ends in 6, the answer always ends in 4. Who am I?

Subtracting a 1-digit from a 2- or 3-digit number

Sheet 1

Set A

1. 88 – 8 = ☐
2. 75 – 5 = ☐
3. 62 – 2 = ☐
4. 78 – 5 = ☐
5. 45 – 2 = ☐
6. 48 – 6 = ☐
7. 69 – 6 = ☐
8. 76 – 4 = ☐
9. 55 – 3 = ☐
10. 39 – 5 = ☐
11. 15 – 4 = ☐
12. 46 – 5 = ☐
13. 117 – 5 = ☐
14. 146 – 4 = ☐
15. 187 – 3 = ☐
16. 135 – 2 = ☐

Set B

1. 21 – 9 = ☐
2. 45 – 6 = ☐
3. 73 – 7 = ☐
4. 14 – 6 = ☐
5. 61 – 2 = ☐
6. 33 – 5 = ☐
7. 25 – 8 = ☐
8. 62 – 4 = ☐
9. 83 – 7 = ☐
10. 21 – 7 = ☐
11. 42 – 7 = ☐
12. 13 – 6 = ☐
13. 142 – 6 = ☐
14. 161 – 4 = ☐
15. 115 – 8 = ☐
16. 133 – 5 = ☐

Challenge

■ - ● = 30. ■ is a 2-digit number. ● is a 1-digit number. ■ has the same ones digit as ●.
Find 3 different ways to make this work.

Subtracting a 1-digit from a 2- or 3-digit number

Sheet 2

1.	28 – 4 =	128 – 4 =	468 – 4 =
2.	19 – 3 =	249 – 3 =	679 – 3 =
3.	32 – 4 =	162 – 4 =	582 – 4 =
4.	45 – 7 =	645 – 7 =	925 – 7 =
5.	54 – 6 =	234 – 6 =	774 – 6 =
6.	151 – 4 =	471 – 4 =	602 – 4 =
7.	124 – 8 =	364 – 8 =	301 – 8 =

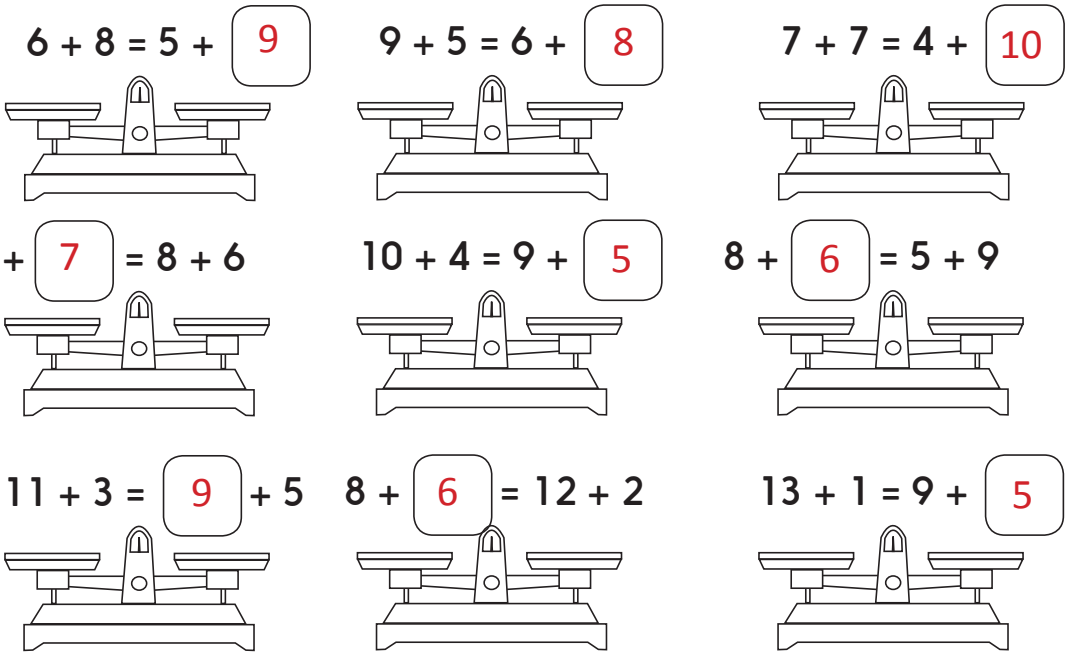
Challenge

When subtracted from a number that ends in 2, the answer always ends in 5. Who am I?

Addition and subtraction

Answers

Day 1 Y3 Balancing the scales Sheet 1



Day 1 Y3 Making 14 and 15 Sheet 2

Making 14

8 + 6 = 14 + 0

16 - 2 = 8 + 6

12 + 2 = 10 + 4

9 + 5 = 1 + 13

17 - 3 = 4 + 10

7 + 7 = 15 - 1

5 + 9 = 7 + 7

9 + 5 = 20 - 6

6 + 8 = 11 + 3

10 + 4 = 3 + 11

Making 15

10 + 5 = 13 + 2

12 + 3 = 9 + 6

6 + 9 = 8 + 7

10 + 5 = 2 + 13

19 - 4 = 11 + 4

3 + 12 = 6 + 9

0 + 15 = 3 + 12

15 + 0 = 20 - 5

4 + 11 = 16 - 1

1 + 14 = 4 + 11

Challenge

Largest number is 24 (7 + 8 + 9).
5 + 6 + 7 = 18
7 possible totals (1 + 2 + 3 = 6, 2 + 3 + 4 = 9, 3 + 4 + 5 = 12, 4 + 5 + 6 = 15, 5 + 6 + 7 = 18, 6 + 7 + 8 = 21 and 7 + 8 + 9 = 24).
All these totals are in the 3x table.

Day 1 Y4 Adding 2-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

Addition and subtraction

Answers

Day 2 Y3 Adding a 1-digit to a 2-digit number Sheet 1

Set A

1. 21 + 9 = 30
2. 45 + 5 = 50
3. 73 + 7 = 80
4. 14 + 6 = 20
5. 68 + 2 = 70
6. 33 + 5 = 38
7. 25 + 3 = 28
8. 62 + 4 = 66
9. 83 + 3 = 86
10. 21 + 7 = 28
11. 47 + 2 = 49
12. 13 + 2 = 15
13. 114 + 6 = 120
14. 123 + 5 = 128
15. 154 + 3 = 157
16. 194 + 5 = 199

Set B

1. 39 + 5 = 44
2. 28 + 4 = 32
3. 36 + 6 = 42
4. 45 + 7 = 52
5. 78 + 8 = 86
6. 33 + 9 = 42
7. 27 + 5 = 32
8. 18 + 6 = 24
9. 12 + 9 = 21
10. 46 + 8 = 54
11. 87 + 4 = 91
12. 34 + 8 = 42
13. 128 + 4 = 132
14. 144 + 6 = 150
15. 119 + 6 = 125
16. 175 + 6 = 181

Challenge

There are 10 possible pairs of numbers to make 90:

81 + 9	82 + 8	83 + 7	84 + 6	85 + 5	86 + 4
87 + 3	88 + 2	89 + 1	90 + 0		

Day 2 Y4 Adding a 1-digit to a 2- or 3-digit number Sheet 2

1.	73 + 6 = 79	123 + 6 = 129	643 + 6 = 649
2.	64 + 4 = 68	254 + 4 = 258	784 + 4 = 788
3.	25 + 7 = 32	125 + 7 = 132	465 + 7 = 472
4.	43 + 9 = 52	343 + 9 = 352	773 + 9 = 782
5.	27 + 5 = 32	267 + 5 = 272	847 + 8 = 855
6.	245 + 6 = 251	785 + 6 = 791	495 + 6 = 501
7.	128 + 5 = 133	468 + 5 = 473	298 + 5 = 303

Challenge

When added to a number that ends in 6, the answer always ends in 4. Who am I? I am the number 8.

Addition and subtraction

Answers

Day 3 Y3 Subtracting a 1-digit from a 2- or 3-digit number Sheet 1

Set A

1. 88 - 8 = 80
2. 75 - 5 = 70
3. 62 - 2 = 60
4. 78 - 5 = 73
5. 45 - 2 = 43
6. 48 - 6 = 42
7. 69 - 6 = 63
8. 76 - 4 = 72
9. 55 - 3 = 52
10. 39 - 5 = 34
11. 15 - 4 = 11
12. 46 - 5 = 41
13. 117 - 5 = 112
14. 146 - 4 = 142
15. 187 - 3 = 184
16. 135 - 2 = 133

Set B

1. 21 - 9 = 12
2. 45 - 6 = 39
3. 73 - 7 = 66
4. 14 - 6 = 8
5. 61 - 2 = 59
6. 33 - 5 = 28
7. 25 - 8 = 17
8. 62 - 4 = 58
9. 83 - 7 = 76
10. 21 - 7 = 14
11. 42 - 7 = 35
12. 13 - 6 = 7
13. 142 - 6 = 136
14. 161 - 4 = 157
15. 115 - 8 = 107
16. 133 - 5 = 128

Challenge

Accept any answers where ■ is between 31 and 39 and ● is the same as the ones digit of ■, e.g.
■ = 35 and ● = 5 or
■ = 33 and ● = 3 or
■ = 37 and ● = 7.

Day 3 Y4 Subtracting a 1-digit from a 2- or 3-digit number Sheet 2

1.	28 – 4 = 24	128 – 4 = 124	468 – 4 = 464
2.	19 – 3 = 16	249 – 3 = 246	679 – 3 = 676
3.	32 – 4 = 28	162 – 4 = 158	582 – 4 = 578
4.	45 – 7 = 38	645 – 7 = 638	925 – 7 = 918
5.	54 – 6 = 48	234 – 6 = 228	774 – 6 = 768
6.	151 – 4 = 147	471 – 4 = 467	602 – 4 = 598
7.	124 – 8 = 116	364 – 8 = 356	301 – 8 = 293

Challenge

When subtracted from a number that ends in 2, the answer always ends in 5.
Who am I? I am the number 7.