Year 2 and Year 3 Addition and Subtraction Unit 2 (23174)

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

Day 1 Y2 Creature calculations Sheet 1
Working towards ARE / Working at ARE
Working at ARE must complete the Challenge.

Day 1 Y2 Creature calculations Sheet 2
Greater Depth

Day 1 Y3 Adding a 1-digit to a 2-digit number Sheet 3
Working towards ARE / Working at ARE / Greater Depth
Working towards ARE try Q1-12 in each set with support.
Working at ARE complete Q1-12 in each set.
Greater Depth complete Q5-16 in each set.
Encourage children to use number facts rather than counting on each time. Provide 0 to 100 beaded lines if necessary (see resources).

Day 2 Y2 Addition and subtraction Sheet 1
Working towards ARE

Day 2 Y2 Addition and subtraction Sheet 2
Working at ARE

Day 2 Y2 Addition and subtraction Sheet 3
Greater Depth

Day 2 Y3 Subtracting a 1-digit from a 2-digit number Sheet 4
Working towards ARE / Working at ARE / Greater Depth
Working towards ARE try Q1-12 in each set with support.
Working at ARE complete Q1-12 in each set.
Greater Depth complete Q5-16 in each set.
Encourage children to use number facts rather than counting back each time. Provide 0 to 100 beaded lines if necessary (see resources).

Day 3 Y2 Addition and subtraction Sheet 1
Working towards ARE

Day 3 Y2 Addition and subtraction Sheet 2
Working at ARE / Greater Depth

Day 3 Y3 Adding 3 or more numbers Sheet 3
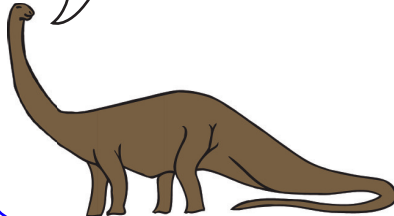Working towards ARE

Day 3 Y3 Adding 3 or more numbers Sheet 4
Working at ARE / Greater Depth

Creature calculations
Sheet 1

Complete each animal's calculation.

My calculations
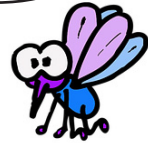
3 + 6 = 9
So, 13 + 6 = 19

13 + 6

15 + 4

12 + 7

36 - 5

27 - 4

11 + 6

13 + 4

14 + 6

18 - 4

19 - 7

16 - 3

17 - 5

19 - 2

practice_add-sub_23174_day1
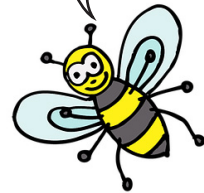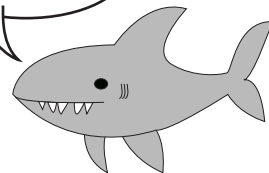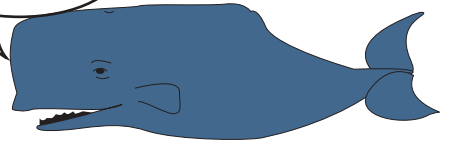
Challenge

Choose one of the add calculations. Write it in the middle of a space. Draw 8 lines out from it rather like a spider. Now write a sum which is easy because it uses the fact in the middle.
Do this for each line, writing a different sum each time.

Example:

14 + 3   23 + 4

24 + 13 —— **13 + 4** —— 13 + 4

3 + 4   33 + 4

93 + 4   63 + 4
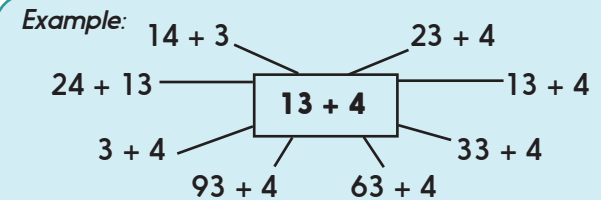
Creature calculations
Sheet 2
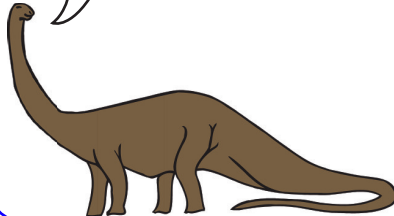
Complete each animal's calculation.

My calculations

5 + 4 = 9

So, 45 + 4 = 49

45 + 4

33 + 5

15 + 3

26 - 5

56 - 4

27 + 3

22 + 7

13 + 6

18 - 5

50 - 7

35 + 4
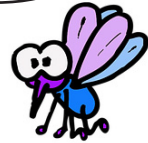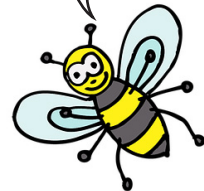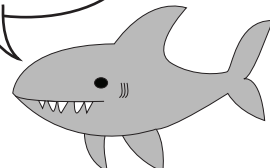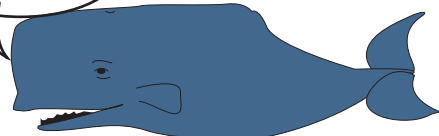
77 - 5

39 - 6

Challenge

Mary says she added 4 to 22 a lot of times and she got to another number with 2 digits the same. How many times did Mary add 4?

Adding a 1-digit to a 2-digit number

Part 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. $194 + 5 =$

Part 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? One of the numbers must have 2-digits. One must be less than 10.

Addition and Subtraction
Sheet 1

Complete these calculations.

1) 2 + 4 =   12 + 4 =   32 + 4 =

2) 3 + 5 =   13 + 5 =   43 + 5 =

3) 7 + 2 =   17 + 2 =   37 + 2 =

4) 1 + 8 =   11 + 8 =   41 + 8 =

5) 6 - 4 =   16 - 4 =   26 - 4 =

6) 9 - 3 =   19 - 3 =   39 - 3 =

7) 7 - 5 =   17 - 5 =   47 - 5 =

8) 8 - 6 =   18 - 6 =   58 - 6 =

Challenge

Write some addition sentences using this fact: 1 + 2 = 3. One must involve a number bigger than 50.

Addition and Subtraction
Sheet 2

Complete these calculations.

1) 12 + 4 =   22 + 4 =   42 + 4 =

2) 23 + 5 =   33 + 5 =   53 + 5 =

3) 17 + 2 =   37 + 2 =   57 + 2 =

4) 21 + 8 =   41 + 8 =   61 + 8 =

5) 6 - 4 =   16 - 4 =   26 - 4 =

6) 19 - 3 =   29 - 3 =   49 - 3 =

7) 27 - 5 =   47 - 5 =   67 - 5 =

8) 58 - 6 =   78 - 6 =   98 - 6 =

Challenge

Write some addition sentences using this fact: 3 + 3 = 6. Two must involve numbers bigger than 50.

Addition and Subtraction
Sheet 3

13 - 6 = 7	14 - 8 = 6	15 - 7 = 8	16 - 7 = 9

14 - 7 = 7	16 - 8 = 8	13 - 5 = 8

1. 34 - 7 =

2. 53 - 6 =

3. 55 - 7 =

4. 84 - 8 =

5. 46 - 7 =

6. 33 - 5 =

7. 52 - 6 =

8. 94 - 7 =

9. 26 - 7 =

10. 23 - 6 =

11. 76 - 8 =

12. 35 - 7 =

Which calculation did not use one of the facts in the boxes above?

Challenge

How many pairs of digits fit in this sentence?

$6 \square - \triangle = 57$

Subtracting a 1-digit from a 2-digit number

Part 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 =

Part 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 units digit as ●.
Find 3 different ways to make this work.

Addition and Subtraction
Sheet 1

Number Search

Find all pairs of next-door numbers making 20. Cross them off as you go.
Write the matching number sentences below.

9	11	10	6	3	17	15	5
2	6	13	7	10	10	16	4
8	12	4	5	6	0	20	16
0	20	3	17	14	19	2	18
13	4	16	10	1	6	14	9
5	15	11	9	12	8	19	1
13	1	3	10	10	15	1	3
7	19	2	11	9	5	4	17

$9 + 11 = 20$

How many pairs did you find?

Challenge

Subtract each of the numbers left over from 20. Write the subtraction number sentences like this: $20 - 1 = 19$

Addition and Subtraction
Sheet 2

14

7

11

18

8

3

20

6

12

9

13

5

19

4

17

0

2

15

10

16

1
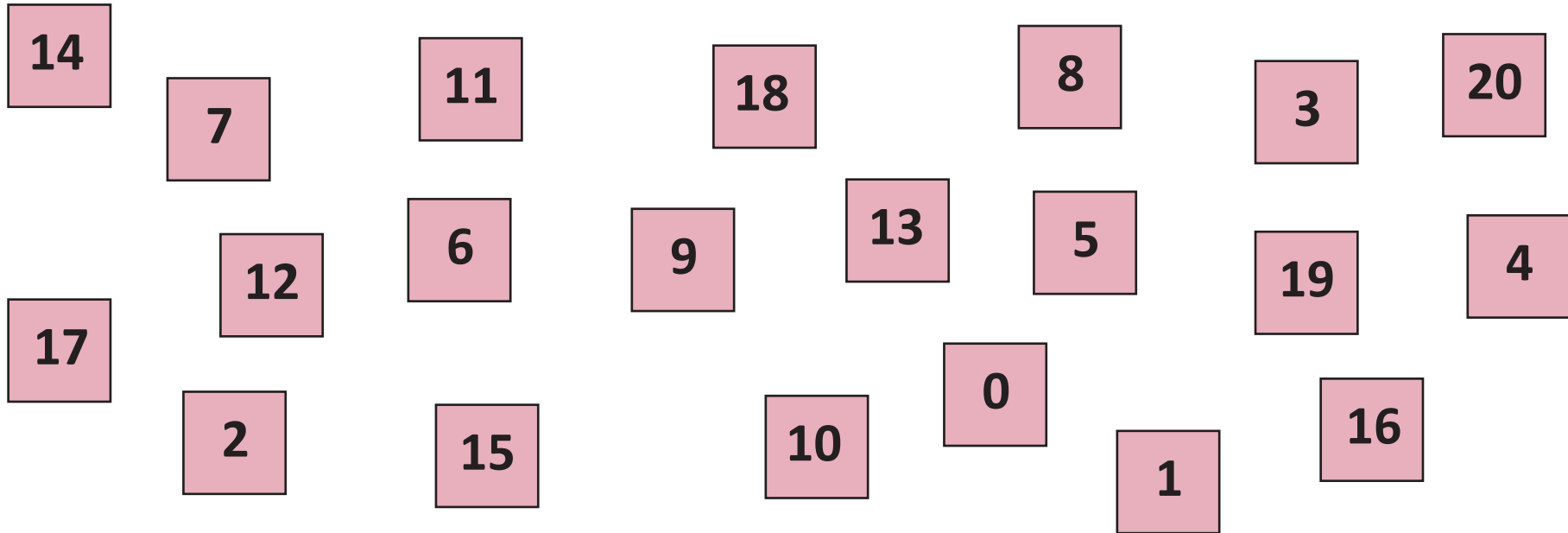
Choose three numbers. Two of them should make 10 or 20.
Write an addition.
Find the total.

Repeat this ten times.

I chose 13 and 7 and 8

13 + 7 + 8 = 28

Challenge

Five consecutive (next-door) numbers add to 20.
What are they?

Adding 3 or more numbers
Sheet 3

Add these numbers.

Remember to look for **doubles**, **number bonds** and to use **place value** to help order them.

7 + 5 + 3 = ☐   5 + 8 + 5 = ☐   2 + 9 + 8 = ☐   4 + 5 + 4 = ☐

6 + 5 + 4 = ☐   9 + 11 + 5 = ☐   8 + 12 + 7 = ☐   4 + 8 + 8 = ☐

7 + 6 + 5 = ☐   10 + 9 + 8 + 1 = ☐

6 + 8 + 6 + 2 = ☐   5 + 7 + 15 = ☐   12 + 4 + 8 = ☐   9 + 5 + 2 + 1 = ☐

Challenge

What four single-digit numbers can be added to make 10?   ☐ ☐ ☐ ☐

Adding 4 or more numbers
Sheet 4

Add these numbers.

Remember to look for **doubles**, **number bonds** and to use **place value** to help order them.

$7 + 5 + 3 + 6 =$ ☐ $2 + 14 + 8 + 6 =$ ☐ $6 + 15 + 7 + 6 =$ ☐ $9 + 8 + 3 + 4 + 1 =$ ☐

$6 + 5 + 2 + 8 =$ ☐ $3 + 16 + 7 + 4 =$ ☐ $2 + 9 + 7 + 5 =$ ☐ $13 + 6 + 9 + 7 =$ ☐

$4 + 12 + 6 + 8 =$ ☐ $13 + 8 + 7 + 12 + 6 =$ ☐

$5 + 8 + 9 + 6 + 1 =$ ☐ $15 + 8 + 7 + 6 =$ ☐

Challenge

What four numbers can be added to give a total of 14? No two numbers can be the same.   ☐ ☐ ☐ ☐

Addition and Subtraction
Answers

Day 1 Y2 Creature calculations Sheet 1

13 + 4
3 + 4 = 7
13 + 4 = 17

14 + 6
4 + 6 = 10
14 + 6 = 20

15 + 4
5 + 4 = 9
15 + 4 = 19

12 + 7
2 + 7 = 9
12 + 7 = 19

11 + 6
1 + 6 = 7
11 + 6 = 17

19 - 2
9 - 2 = 7
19 - 2 = 17

17 - 5
7 - 5 = 2
17 - 5 = 12

18 - 4
8 - 4 = 4
18 - 4 = 14

16 - 3
6 - 3 = 3
16 - 3 = 13

19 - 7
9 - 7 = 2
19 - 7 = 12

27 - 4
7 - 4 = 3
27 - 4 = 23

36 - 5
6 - 5 = 1
36 - 5 = 31

Day 1 Y2 Creature calculations Sheet 2

15 + 3
5 + 3 = 8
15 + 3 = 18

33 + 5
3 + 5 = 8
33 + 5 = 38

13 + 6
3 + 6 = 9
13 + 6 = 19

22 + 7
2 + 7 = 9
22 + 7 = 29

27 + 3
7 + 3 = 10
27 + 7 = 30

50 - 7
10 - 7 = 3
50 - 7 = 43

18 - 5
8 - 5 = 3
18 - 5 = 13

56 - 4
6 - 4 = 2
56 - 4 = 52

35 + 4
5 + 4 = 9
35 + 4 = 39

77 - 5
7 - 5 = 2
77 - 5 = 72

26 + 5
6 + 5 = 11
26 + 5 = 31

39 - 6
9 - 6 = 3
39 - 6 = 33

Challenge

Mary added 4 eleven times to 22 to make 66.

Addition and Subtraction
Answers

Day 1 Y3 Adding a 1-digit to a 2-digit number Sheet 3

Part 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**

Part 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 Y2 Addition and subtraction Sheet 1

1) 2 + 4 = **6**   12 + 4 = **16**   34 + 4 = **38**
2) 3 + 5 = **8**   13 + 5 = **18**   43 + 5 = **48**
3) 7 + 2 = **9**   17 + 2 = **19**   37 + 2 = **39**
4) 1 + 8 = **9**   11 + 8 = **19**   41 + 8 = **49**
5) 6 - 4 = **2**   16 - 4 = **12**   26 - 4 = **22**
6) 9 - 3 = **6**   19 - 3 = **6**   39 - 3 = **36**
7) 7 - 5 = **2**   17 - 5 = **12**   47 - 5 = **42**
8) 8 - 6 = **2**   18 - 6 = **12**   58 - 6 = **52**

practice_add-sub_23174_answers

Addition and Subtraction

Answers

Day 2 Y2 Addition and subtraction Sheet 2

1) 12 + 4 = **16** 22 + 4 = **26** 42 + 4 = **44**
2) 23 + 5 = **28** 33 + 5 = **38** 53 + 5 = **58**
3) 17 + 2 = **19** 37 + 2 = **39** 57 + 2 = **59**
4) 21 + 8 = **29** 41 + 8 = **49** 61 + 8 = **69**
5) 6 - 4 = **2** 16 - 4 = **12** 26 - 4 = **22**
6) 19 - 3 = **16** 29 - 3 = **26** 49 - 3 = **46**
7) 27 - 5 = **22** 47 - 5 = **42** 67 - 5 = **62**
8) 58 - 6 = **52** 78 - 6 = **72** 98 - 6 = **92**

Day 2 Y2 Addition and subtraction Sheet 3

1. 34 - 7 = **27**   7. 52 - 6 = **46**
2. 53 - 6 = **47**   8. 94 - 7 = **87**
3. 55 - 7 = **48**   9. 26 - 7 = **19**
4. 84 - 8 = **76**   10. 23 - 6 = **17**
5. 46 - 7 = **39**   11. 76 - 8 = **68**
6. 33 - 5 = **28**   12. 35 - 7 = **28**

Which calculation did not use one of the facts in the boxes above?
52 - 6 = 46

Challenge

How many pairs of digits fit in this sentence? 6 ☐ - △ = 57

69 - 12   **68 - 11**   **67 - 10**   **66 - 9**   **65 - 8**   **64 - 7**
63 - 6   **62 - 5**   **61 - 4**   **60 - 3**

Day 2 Y3 Subtracting a 1-digit from a 2-digit number Sheet 4

Part A

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

Part B

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

Addition and Subtraction
Answers

Day 2 Y3 Subtracting a 1-digit from a 2-digit number Sheet 4 continued

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

Day 3 Y2 Addition and subtraction Sheet 1

9	11	10	6	3	17	15	5
2	6	13	7	10	10	16	4
8	12	4	5	6	0	20	16
0	20	3	17	14	19	2	18
13	4	16	10	1	6	14	9
5	15	11	9	12	8	19	1
13	1	3	10	10	15	1	3
7	19	2	11	9	5	4	17

9 + 11 = 20   3 + 17 = 20   5 + 15 = 20
13 + 7 = 20   10 + 10 = 20   16 + 4 = 20
0 + 20 = 20   6 + 14 = 20   2 + 18 = 20
4 + 16 = 20   11 + 9 = 20   12 + 8 = 20
19 + 1 = 20   1 + 19 = 20

> **Challenge**
>
> 20 - 10 = 10   20 - 6 = 14
> 20 - 2 = 18   20 - 6 = 14
> 20 - 4 = 16   20 - 5 = 15   20 - 16 = 4
> 20 - 19 = 1
> 20 - 13 = 7   20 - 10 = 10   20 - 1 = 19   20 - 9 = 11
> 20 - 3 = 17   20 - 1 = 19
> 20 - 2 = 18   20 - 4 = 16

Day 3 Y2 Addition and subtraction Sheet 2

Children should record ten calculations using the numbers given in the following format:
I chose 14 and 7 and 3
14 + 7 + 3 = 24

> **Challenge**
>
> Five consecutive (next door) numbers add to 20.
> What are they? **2 + 3 + 4 + 5 + 6**

Addition and Subtraction
Answers

Day 3 Y3 Adding 3 or more numbers Sheet 3

7 + 5 + 3 = **15**　　5 + 8 + 5 = **18**　　2 + 9 + 8 = **19**　　4 + 5 + 4 = **13**

6 + 5 + 4 = **15**　　9 + 11 + 5 = **25**　　8 + 12 + 7 = **27**　　4 + 8 + 8 = **20**

7 + 6 + 5 = **18**　　10 + 9 + 8 + 1 = **28**

6 + 8 + 6 + 2 = **22**　　5 + 7 + 15 = **27**　　12 + 4 + 8 = **24**　　9 + 5 + 2 + 1 = **17**

Challenge

What four single-digit numbers can be added to make 10?　**1** **2** **3** **4**

Day 3 Y3 Adding 4 or more numbers Sheet 4

7 + 5 + 3 + 6 = **21**　　2 + 14 + 8 + 6 = **30**　　6 + 15 + 7 + 6 = **34**　　9 + 8 + 3 + 4 +1= **25**

6 + 5 + 2 + 8 = **21**　　3 + 16 + 7 + 4 = **30**　　2 + 9 + 7 + 5 = **23**　　13 + 6 + 9 + 7 = **35**

4 + 12 + 6 + 8 = **30**　　13 + 8 + 7 + 12 + 6 = **46**

5 + 8 + 9 + 6 + 1 = **29**　　15 + 8 + 7 + 6 = **36**

Challenge

What four numbers can be added to give a total of 14? No two numbers can be the same.

1 **2** **3** **8**　　**1** **3** **4** **6**　　**1** **2** **4** **7**

1 **2** **5** **6**　　**2** **3** **4** **5**