Y1/2 Addition and Subtraction Unit 1 (12444)

Additional teacher instructions for practice sheets

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

Day 1 Y1 How many more to make 8? Sheet 1
Working towards ARE / Working at ARE / Greater Depth
Working towards ARE use real cubes to support.
Greater Depth complete all the questions then write the matching number bond of each by swapping the numbers, e.g. 6 + 2 = 8 and 2 + 6 = 8.

Day 1 Y2 Creature calculations Sheet 2
Working towards ARE / Working at ARE

Day 1 Y2 Creature calculations Sheet 3
Greater Depth

Day 2 Y1 Birthday number bond candles Sheet 1
Working towards ARE / Working at ARE / Greater Depth
Working towards ARE may draw candles to help.

Day 2 Y2 Card race Sheet 2
Working towards ARE

Day 2 Y2 Four in a row Sheet 3
Working at ARE / Greater Depth

Day 3 Y1 Relating addition and subtraction Sheet 1
Working towards ARE

Day 3 Y1 Relating addition and subtraction Sheets 2 and 3
Working at ARE / Greater Depth

Day 3 Y2 Train journey Sheet 4
Working towards ARE / Working at ARE / Greater Depth
Working towards ARE / Working at ARE complete the first 3 stops in each row.
Greater Depth complete all stops and the Challenge.

Day 4 Y1 Adding 3 numbers Sheet 1
Working towards ARE / Working at ARE
Children rewrite the numbers showing how they can be reordered to make it easy to add.

Day 4 Y1 Adding 3 numbers Sheet 2
Greater Depth
Children rewrite the numbers showing how they can be reordered to make it easy to add.

Y1/2 Addition and Subtraction Unit 1 (12444)

Additional teacher instructions for practice sheets (continued)

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

Day 4 Y2 Matching up Sheet 3
Working towards ARE

Day 4 Y2 Matching up Sheet 4
Working at ARE / Greater Depth

Day 5 Y1 Adding 3 dice Sheet 1
Working towards ARE / Working at ARE
Working towards ARE use beaded lines to support

Day 5 Y1 Adding 3 numbers Sheet 2
Greater Depth

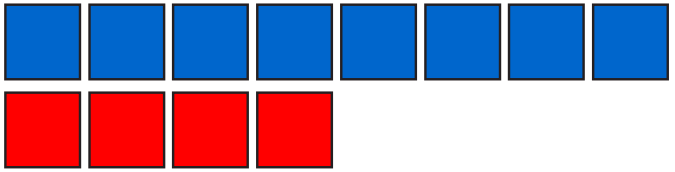
Day 5 Y2 Adding using number facts Sheet 3
Working towards ARE / Working at ARE

Day 5 Y2 Adding using number facts Sheet 4
Greater Depth

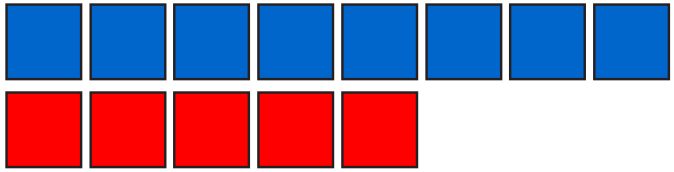
How many more to make 8?

Sheet 1

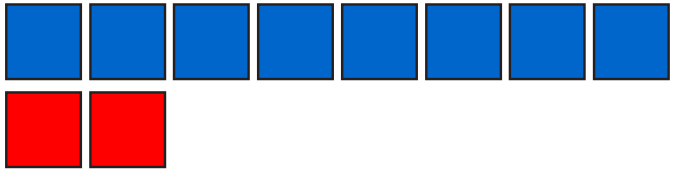
Draw the missing number of cubes and write the missing number in the number sentence below:



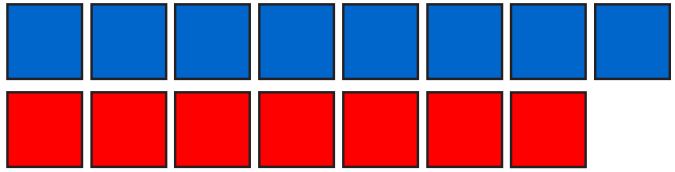
4 + ☐ = 8



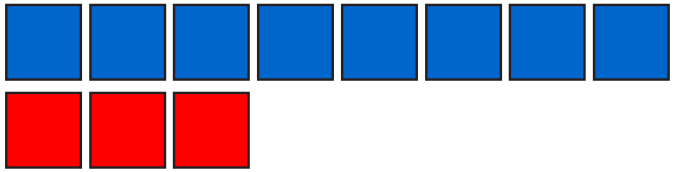
5 + ☐ = 8



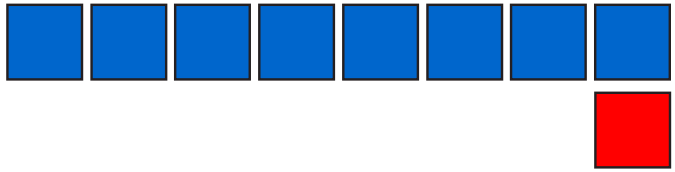
2 + ☐ = 8



7 + ☐ = 8



3 + ☐ = 8

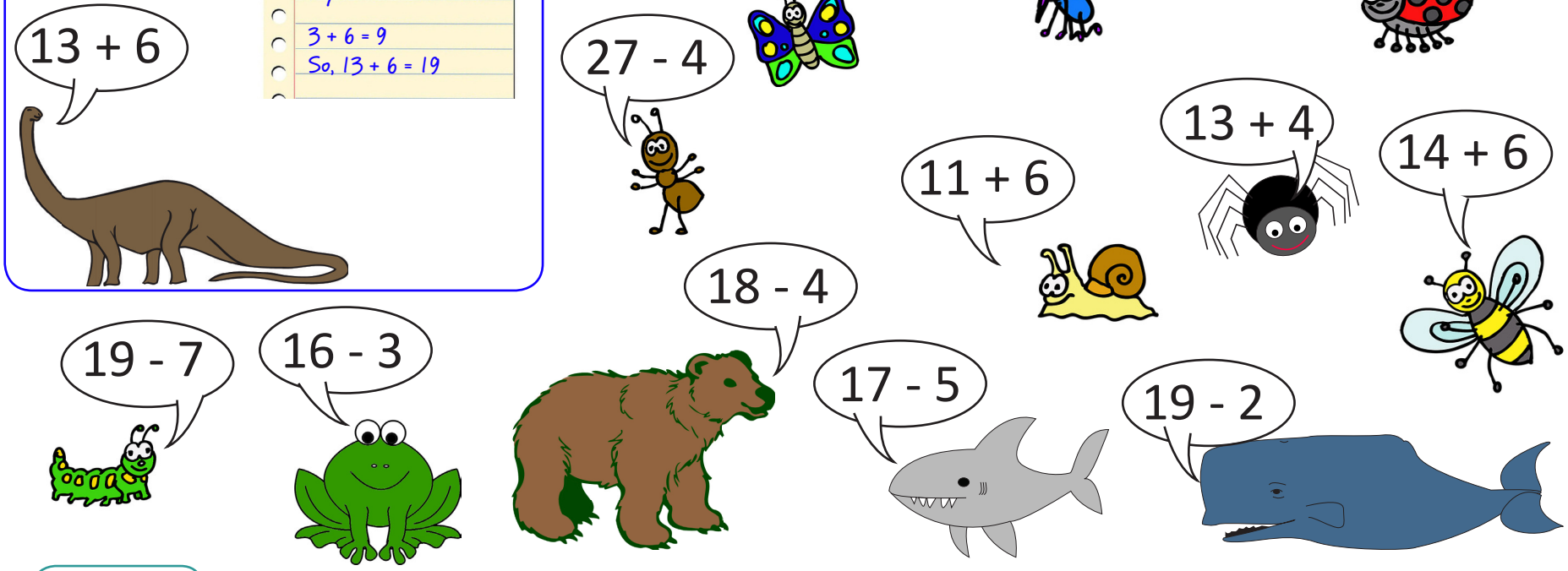


☐ + 1 = 8

Creature calculations

Sheet 2

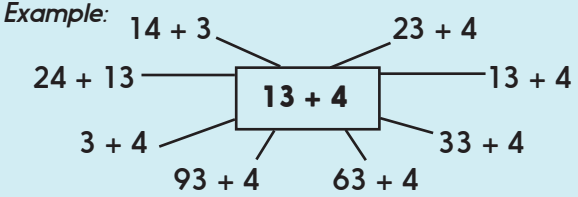
Complete each animal's calculation.



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.

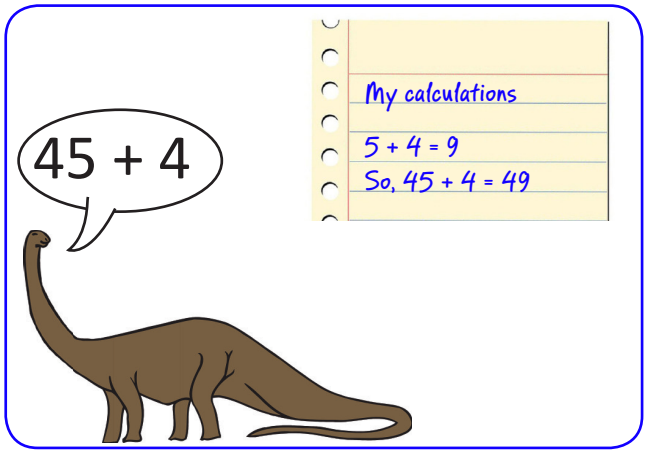
Example:

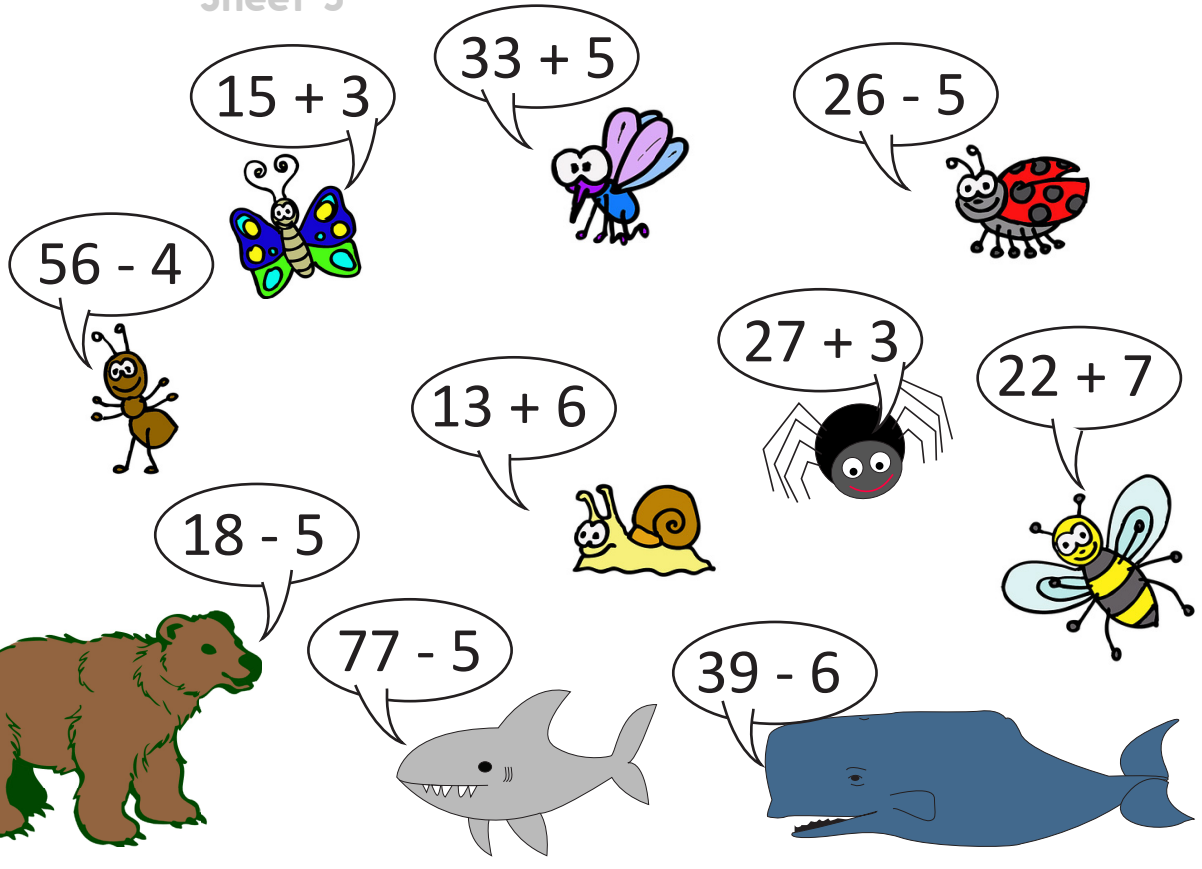


Creature calculations

Sheet 3

Complete each animal's calculation.





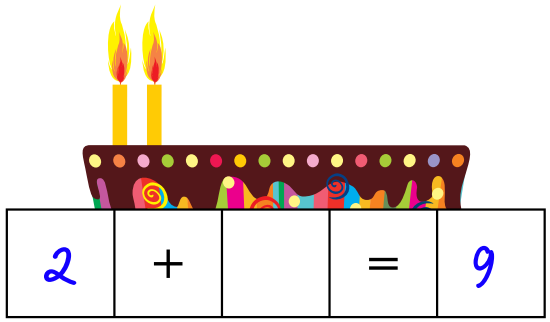
Challenge

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?

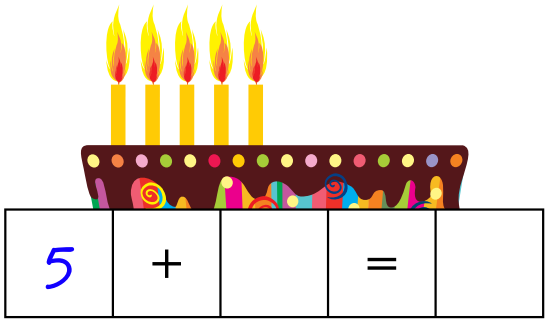
Birthday number bond candles

Sheet 1

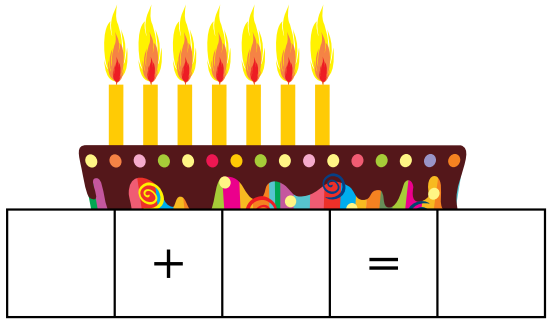
How many more candles to make 9? Finish each number sentence.



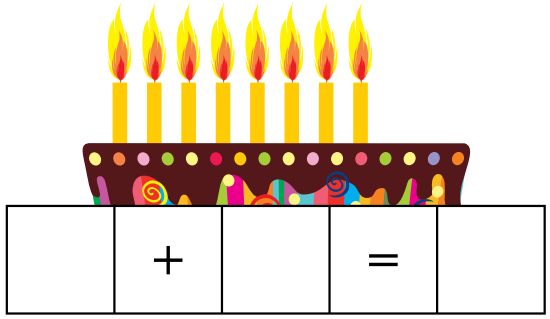
2 + ☐ = 9



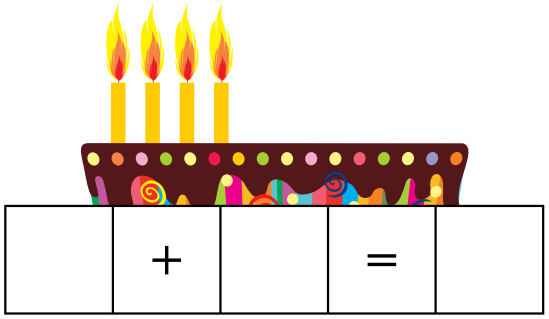
5 + ☐ = ☐



☐ + ☐ = ☐

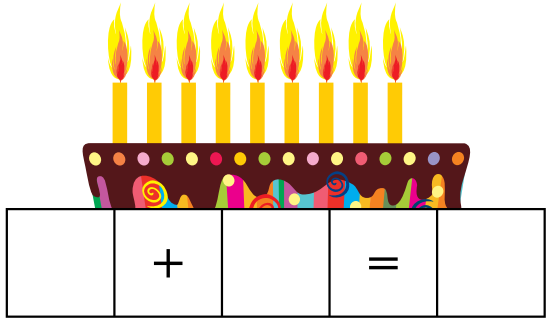


☐ + ☐ = ☐

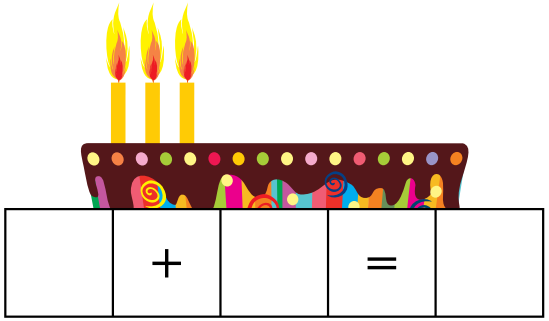


☐ + ☐ = ☐

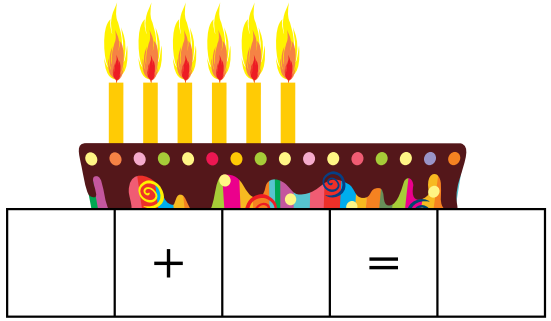
☐ + ☐ = ☐



☐ + ☐ = ☐



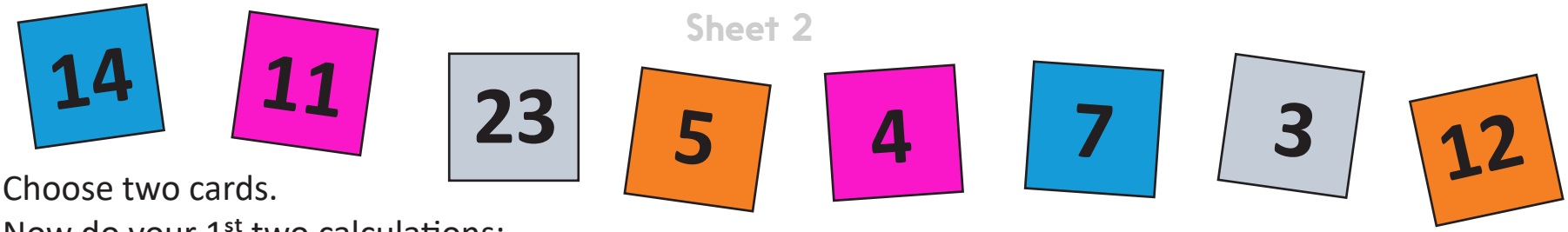
☐ + ☐ = ☐



☐ + ☐ = ☐

Card Race

Sheet 2



- Choose two cards.
- Now do your 1st two calculations:
  - a) Add the two numbers. Record the addition in the top space.
  - b) Find the difference between the numbers. Record the subtraction below the addition.
- Choose a different pair of cards for the 2nd pair of calculations.
- Challenge yourself to win a cup!

1st pair of calculations	2nd pair of calculations	3rd pair of calculations	4th pair of calculations	5th pair of calculations	6th pair of calculations	7th pair of calculations
a) 11 + 5 = 16	a)	a)				
b) 11 - 5 = 6	b)	b)				
			a)	a)		
			b)	b)		
					a)	a)
					b)	b)

Four in a row

Sheet 3

Work in pairs.

- Pick a question to solve. Write it in your book.
- Your partner checks it.
- If it is correct, place a counter on that square.
- Take turns answering questions.
- The aim of the game is to be the first to get 4 counters of the same colour in a row.

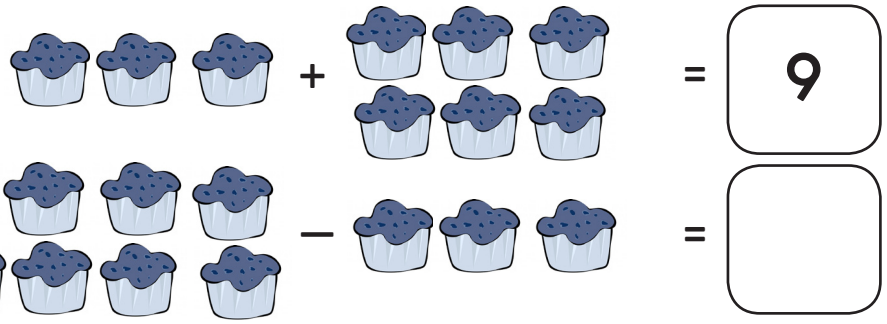
21 + 3	76 - 6	66 - 3	90 + 9	20 + 5	47 + 3
22 + 6	97 - 3	44 + 4	33 + 6	49 - 5	65 - 3
64 - 4	40 + 5	92 + 6	19 - 5	23 + 5	60 + 1
80 + 3	57 - 3	34 - 4	23 + 3	77 - 5	27 - 6
78 - 6	30 + 9	40 - 5	10 + 6	38 - 8	22 + 5
35 + 5	65 - 5	92 - 2	59 - 4	42 + 3	100 - 10

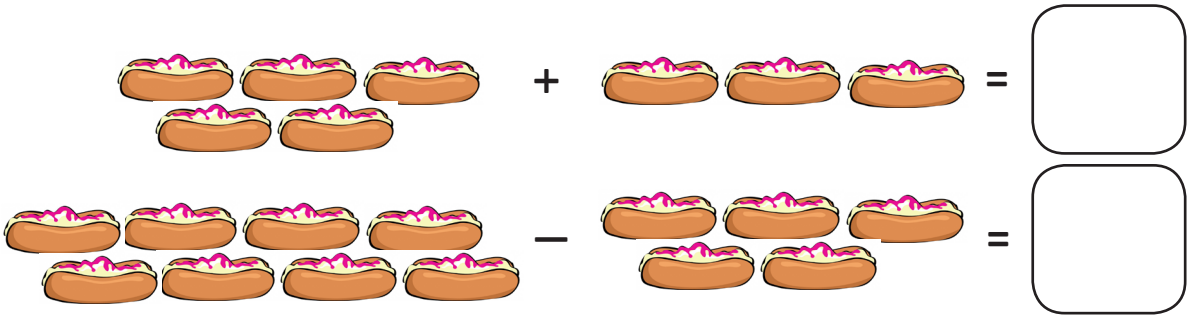
Relating addition and subtraction

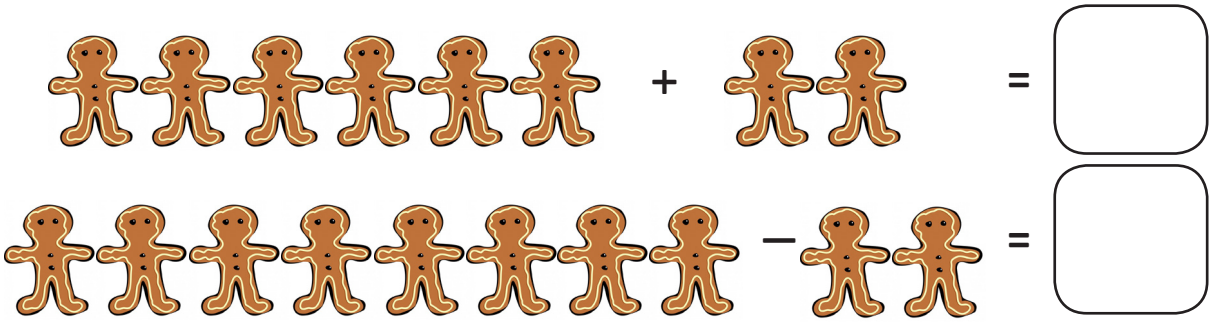
Sheet 1

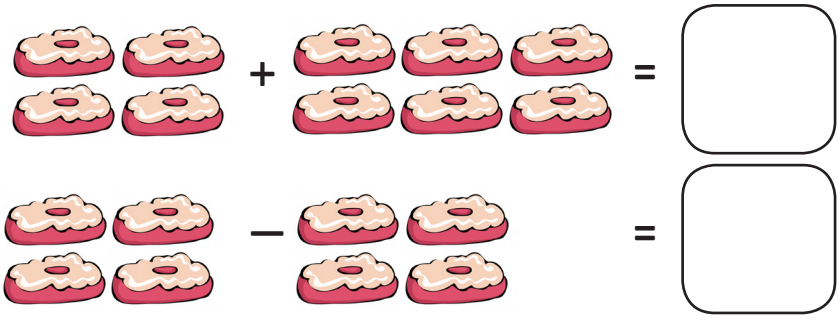
Knowing addition facts can help us to work out subtraction facts.
If we know 3 + 4 = 7, then we know that 7 – 3 = 4, or 7 – 4 = 3.

Work out each addition. Use it to create a subtraction number sentence, e.g.









Relating addition and subtraction

Sheet 2

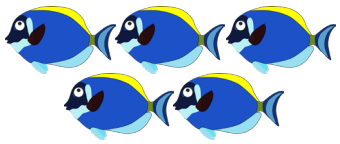
Knowing addition facts can help us to work out subtraction facts.
If we know 3 + 4 = 7, then we know that 7 – 3 = 4, or 7 – 4 = 3.

6 + 2 = 8, so 8 - 2 = 6 and 8 - 6 = 2

Work out each addition. Use it to create a subtraction number sentence.

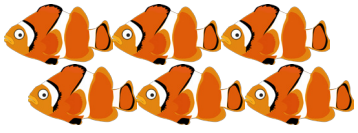
□ + □ = 3

3 – □ = □



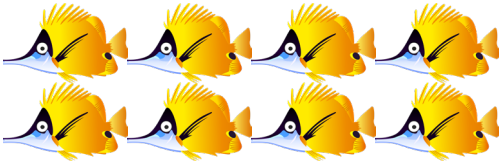
□ + □ = 5

□ – □ = □



□ + □ = □

□ – □ = □



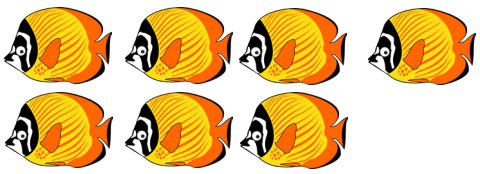
□ + □ = □

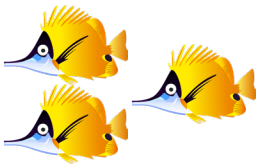
□ – □ = □

Relating addition and subtraction

Sheet 3

Use each addition to create two subtractions.





☐ + ☐ = ☐

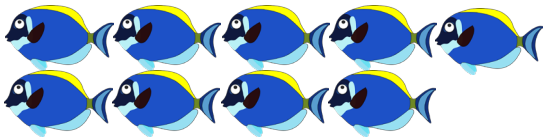
☐ − ☐ = ☐

☐ − ☐ = ☐

☐ + ☐ = ☐

☐ − ☐ = ☐

☐ − ☐ = ☐



☐ + ☐ = ☐

☐ − ☐ = ☐

☐ − ☐ = ☐

☐ + ☐ = ☐

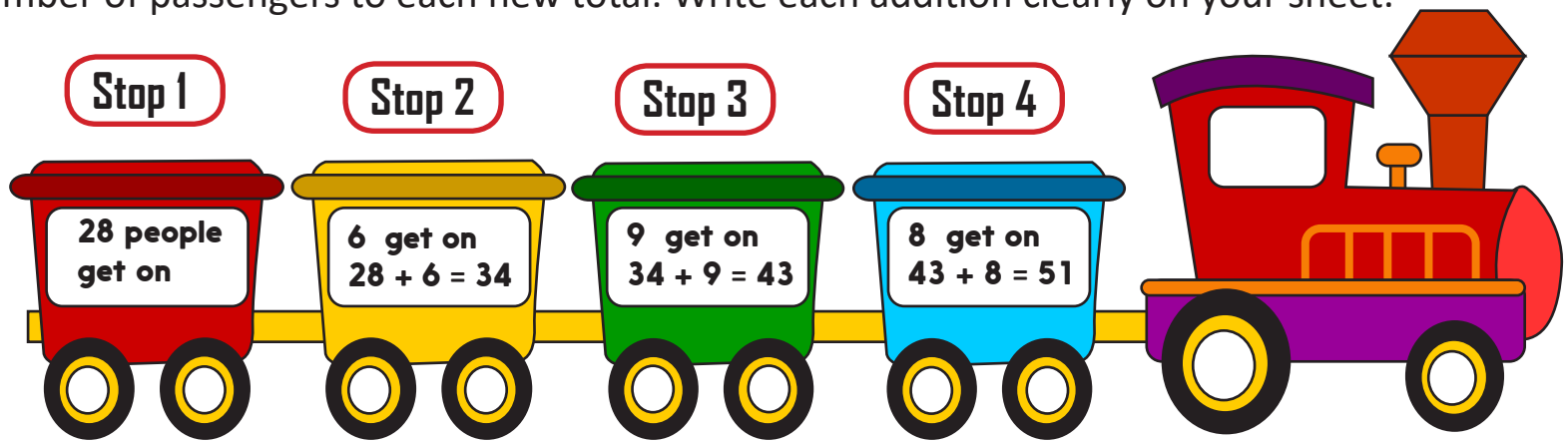
☐ − ☐ = ☐

☐ − ☐ = ☐

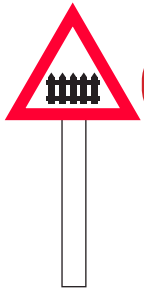
Train journey

Sheet 4

At each stop, more passengers get on the train.
Add the number of passengers to each new total. Write each addition clearly on your sheet.



	Stop 1	Stop 2	Stop 3	Stop 4
Journey 2	45 get on	8 get on	5 get on	6 get on
Journey 3	67 get on	6 get on	6 get on	8 get on
Journey 4	55 get on	6 get on	7 get on	6 get on



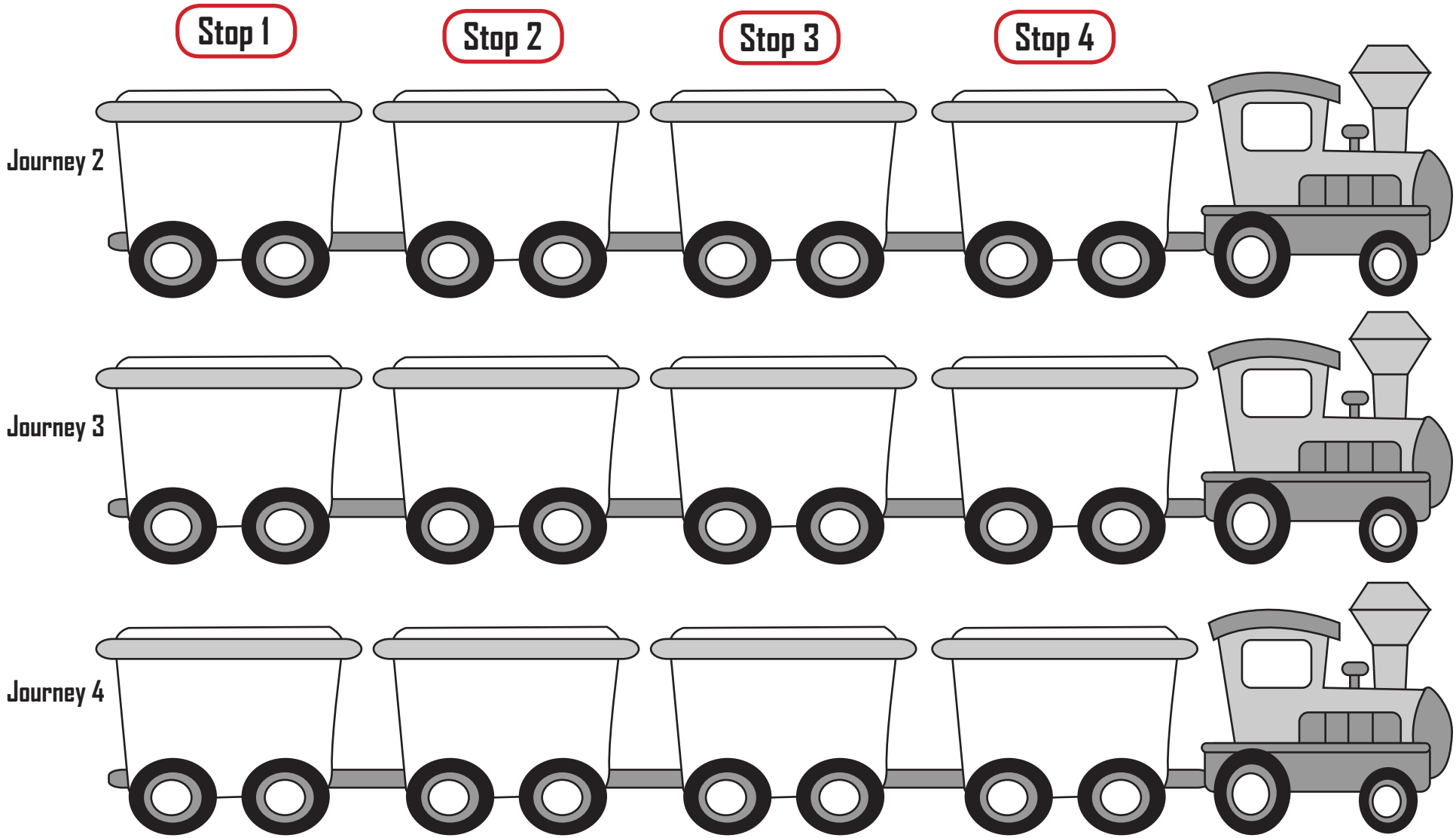
Challenge

Start number is 45. End number is 80. Which of these three numbers can be repeatedly added to 45 to get from start to end?

6 7 8

Train journey

Sheet 4 continued



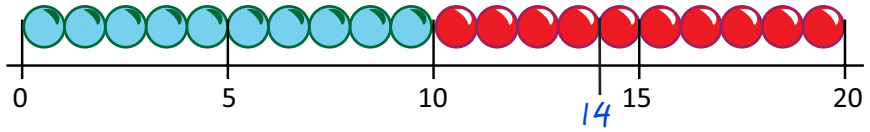
Adding 3 numbers

Sheet 1

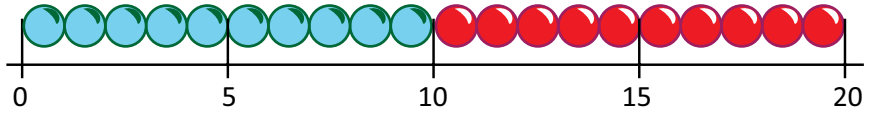
Example

This makes 10

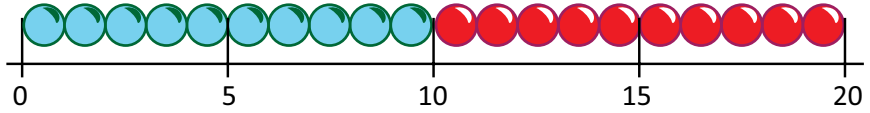
9 4 1 = 9 + 1 + 4 = 14



5 2 8 = ☐ + ☐ + ☐ = ☐



7 3 4 = ☐ + ☐ + ☐ = ☐

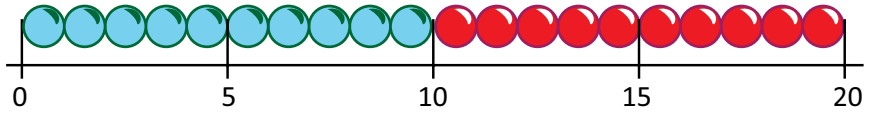


Challenge

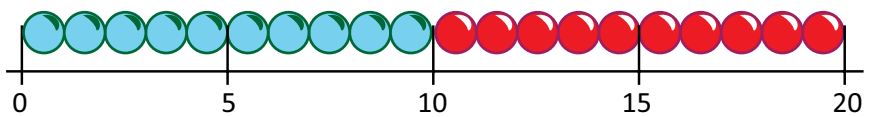
Fill in the missing numbers:

☐ + 7 + ☐ = 17

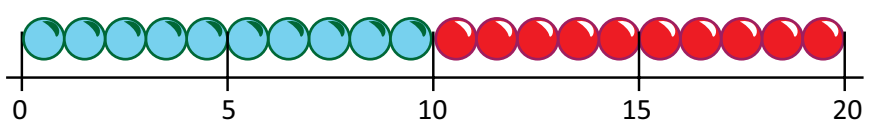
4 5 6 = ☐ + ☐ + ☐ = ☐



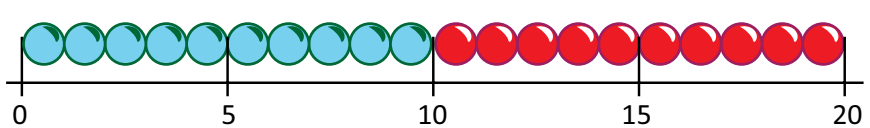
3 7 8 = ☐ + ☐ + ☐ = ☐



3 6 4 = ☐ + ☐ + ☐ = ☐



5 9 5 = ☐ + ☐ + ☐ = ☐



Adding 3 numbers

Sheet 2

9 4 1 ☐ + ☐ + ☐ = ☐

5 2 8 ☐ + ☐ + ☐ = ☐

7 3 4 ☐ + ☐ + ☐ = ☐

4 5 6 ☐ + ☐ + ☐ = ☐

3 7 8 ☐ + ☐ + ☐ = ☐

3 6 4 ☐ + ☐ + ☐ = ☐

5 9 5 ☐ + ☐ + ☐ = ☐

Challenge

Write 3 numbers to give a total of 17.

☐ + ☐ + ☐ = 17

Matching up

Sheet 3

Match the questions to the correct answers.

48 - 5

57 - 4

72 - 3

29 - 7

69

81

58

22

38

43

53

14

86 - 5

64 - 6

17 - 3

42 - 4

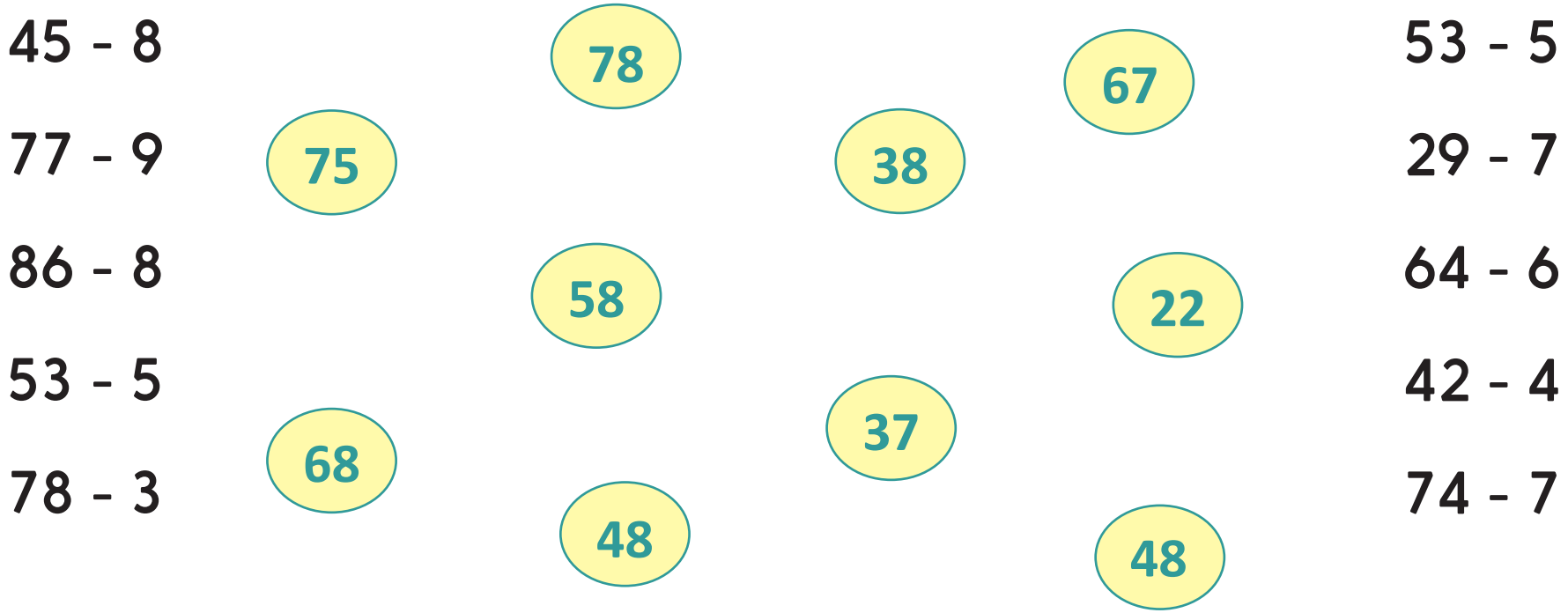
Challenge

How many times must I subtract 4 from 28 to reach 8?
What happens if I subtract 5 four times from 28?

Matching up

Sheet 4

Match the questions to the correct answers.



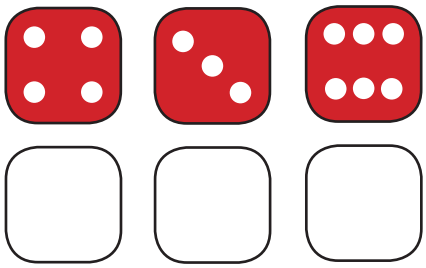
Challenge

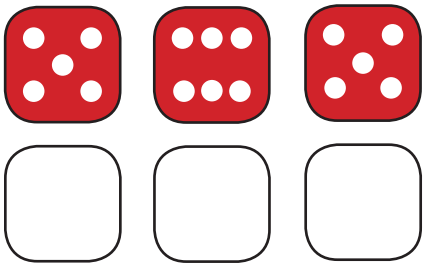
How many times must I subtract 8 from 80 to reach 32?
What happens if I subtract 6 eight times from 80?
Can you say why?

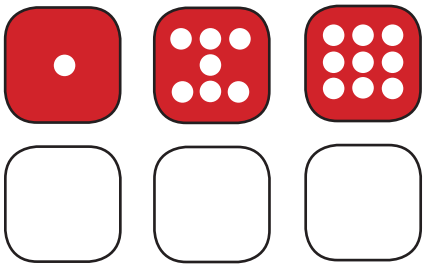
Adding 3 dice

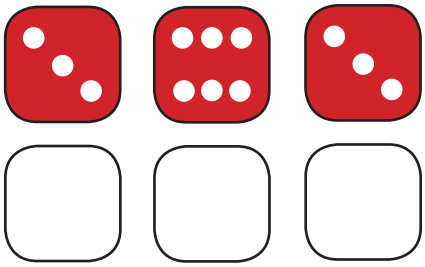
Sheet 1

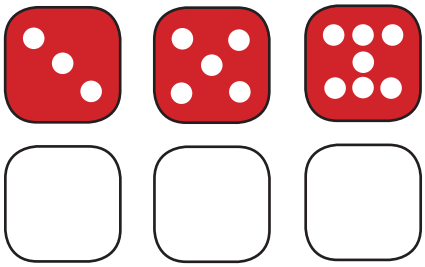
Can you re-arrange the dice into the order you might add them together?
Remember to look for doubles and number bonds to help you,
e.g. 6 + 4 + 2 = 12

1. 

2. 

3. 

4. 

5. 

Adding 3 numbers

Sheet 2

Draw a ☺ or ☹ to show if you think these groups of 3 numbers are easy to add.
Tick ☑ to say why... one has been done for you.

numbers	☺ or ☹	pair to 10	double	other
7 + 6 + 3	☺	7 + 3 ✓		
8 + 1 + 9				
				
				
3 + 8 + 6				
4 + 7 + 9				

Adding using number facts

Sheet 3

Can you spot any pairs to 10 or doubles that will help you add the numbers?

Add these numbers	Pairs to 10	Doubles	Other facts	Answer
1, 9, 3	9 + 1 = 10			10 + 3 = 13
3, 7, 4				
4, 5, 4				
6, 2, 6				
2, 5, 8				
5, 4, 9, 4, 1	9 + 1 = 10	4 + 4 = 8		10 + 8 + 5 = 23
3, 6, 7, 6, 3				
9, 2, 4, 8, 6				
7, 5, 7, 4, 5				
9, 3, 4, 3, 5				
8, 4, 2, 4,1				

Adding using number facts

Sheet 4

Can you spot any pairs to 10 or doubles or other facts that will help you add the numbers?

Add these numbers	Pairs to 10	Doubles	Other facts	Answer
5, 4, 9, 4, 1	9 + 1 = 10	4 + 4 = 8		10 + 8 + 5 = 23
3, 6, 7, 6, 3				
9, 2, 4, 8, 6				
7, 5, 7, 4, 5				
9, 3, 4, 3, 5				
8, 4, 2, 4, 1				
6, 2, 3, 6, 9, 7				
4, 3, 8, 3, 6, 8				
9, 4, 5, 2, 1, 3				
4, 7, 4, 8, 9, 3,				
2, 3, 5, 9, 4, 2				
9, 1, 4, 5, 6, 9				

Challenge

Can you find any other ways to add your sets of numbers?
Which way is the easiest? Which is the hardest?

Addition and subtraction

Answers

Day 1 Y1 How many more to make 8? Sheet 1

4 + 4 = 8 5 + 3 = 8
2 + 6 = 8 7 + 1 = 8
3 + 5 = 8 7 + 1 = 8

Day 1 Y2 Creature calculations Sheet 2

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 3

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 2 Y1 Birthday number bond candles Sheet 1

2 + 7 = 9 5 + 4 = 9 7 + 2 = 9
8 + 1 = 9 4 + 5 = 9 1 + 8 = 9
9 + 0 = 9 3 + 6 = 9 6 + 3 = 9

Day 2 Y2 Four in a row Sheet 3

21 + 3 = 24	76 - 6 = 70	66 - 3 = 63	90 + 9 = 99	20 + 5 = 25	47 + 3 = 50
22 + 6 = 28	97 - 3 = 94	44 + 4 = 48	33 + 6 = 39	49 - 5 = 44	65 - 3 = 62
64 - 4 = 60	40 + 5 = 45	92 + 6 = 98	19 - 5 = 14	23 + 5 = 28	60 + 1 = 61
80 + 3 = 83	57 - 3 = 54	34 - 4 = 30	23 + 3 = 26	77 - 5 = 72	27 - 6 = 21
78 - 6 = 72	30 + 9 = 39	40 - 5 = 35	10 + 6 = 16	38 - 8 = 30	22 + 5 = 27
35 + 5 = 40	65 - 5 = 60	92 - 2 = 90	59 - 4 = 55	42 + 3 = 45	100 - 10 = 90

Day 3 Y1 Relating addition and subtraction Sheet 1

3 + 6 = 9, so 9 - 3 = 6
5 + 3 = 8, so 8 - 5 = 3
6 + 2 = 8, so 8 - 2 = 6
4 + 6 = 10, so 10 - 4 = 6

Day 3 Y2 Relating addition and subtraction Sheet 2

2 + 1 = 3 so 3 - 2 = 1
3 + 2 = 5 so 5 - 2 = 3
3 + 3 = 6 so 6 - 3 = 3
4 + 4 = 8 so 8 - 4 = 4

Day 3 Y2 Relating addition and subtraction Sheet 3

4 + 3 = 7 7 - 4 = 3 and 7 - 3 = 4
2 + 1 = 3 3 - 2 = 1 and 3 -1 = 2
6 + 3 = 9 9 - 6 = 3 and 9 - 6 = 3
6 + 4 = 10 10 - 4 = 6 and 10 - 6 = 4

Addition and Subtraction

Answers

Day 3 Y2 Train journey Sheet 4

Row 1 28 + 6 + 9 + 8 = 51
Row 2 45 + 8 + 5 + 6 = 64
Row 3 67 + 6 + 6 + 8 = 87
Row 4 55 + 6 + 7 + 6 = 74

Challenge

7 can be added repeatedly. 45 + 7 + 7 + 7 + 7 + 7 = 80

Day 4 Y1 Adding 3 numbers Sheet 1

9 + 1 + 4 = 14
8 + 2 + 5 = 15
7 + 3 + 4 = 14
6 + 4 + 5 = 15
7 + 3 + 8 = 18
6 + 4 + 3 = 13
5 + 5 + 9 = 19

Challenge

Fill in the missing numbers: 3 + 7 + 7 = 17

Day 4 Y1 Adding 3 numbers Sheet 2

9 + 1 + 4 = 14
8 + 2 + 5 = 15
7 + 3 + 4 = 14
6 + 4 + 5 = 15
7 + 3 + 8 = 18
6 + 4 + 3 = 13
5 + 5 + 9 = 19

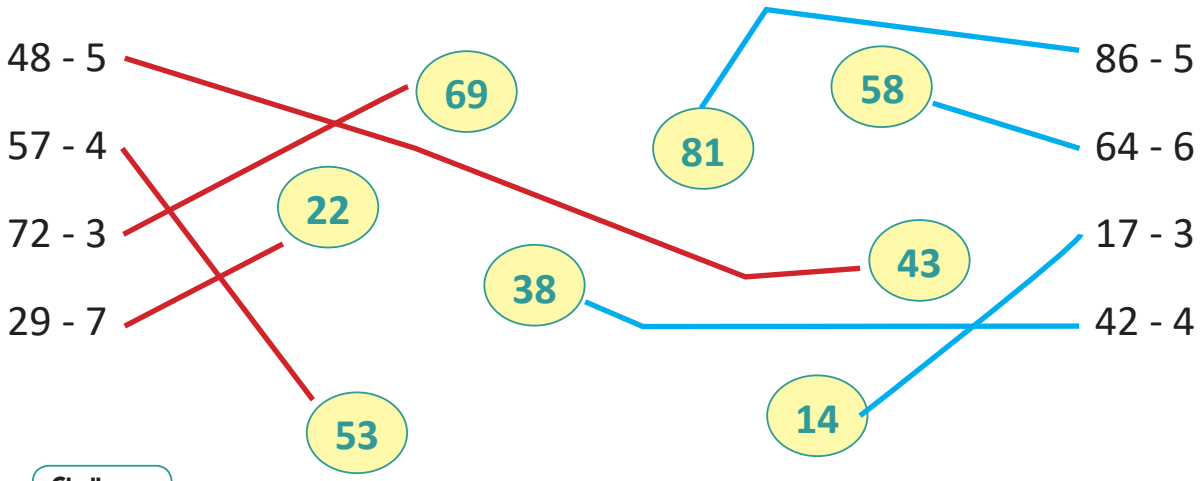
Challenge

Accept answers where 3 different numbers are given that add up to 17, e.g. 6 + 4 + 7, 8 + 2 + 7, 6 + 6 + 5, etc.

Addition and Subtraction

Answers

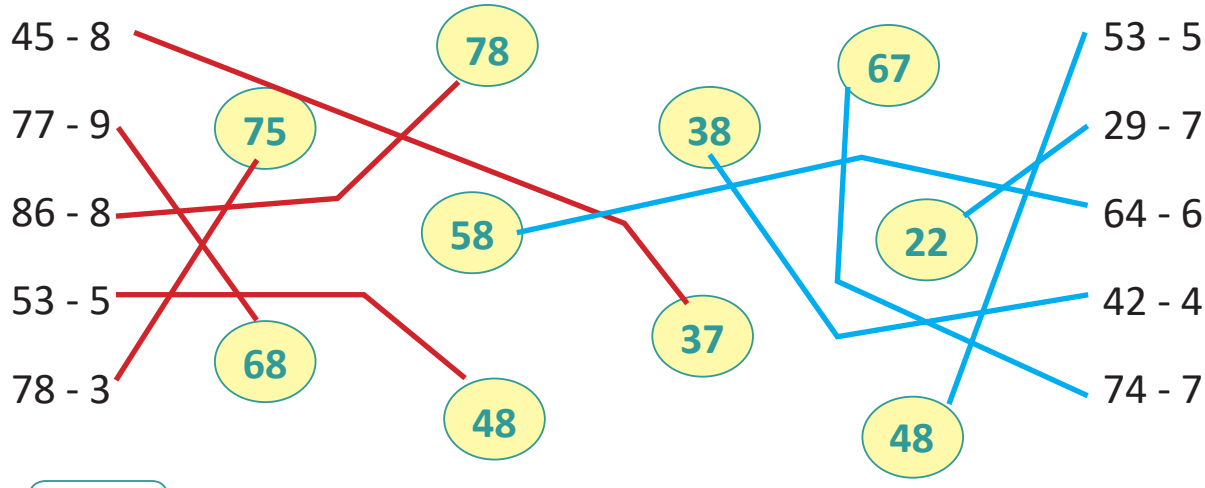
Day 4 Y2 Matching up Sheet 3



Challenge

How many times must I subtract 4 from 28 to reach 8? Five times
What happens if I subtract 5 four times from 28? You also reach 8 because subtracting 5 four times is the same as subtracting 4 five times: 4 x 5 – 20 and 5 x 4 – 20; 28 - 20 – 8.

Day 4 Y2 Matching up Sheet 4



Challenge

How many times must I subtract 8 from 80 to reach 32? Six times
What happens if I subtract 6 eight times from 80? Can you say why?
You also reach 32 because subtracting 6 eight times is the same as subtracting 8 six times: 6 x 8 = 8 x 6 = 48;

Addition and Subtraction

Answers

Day 5 Y1 Adding 3 dice Sheet 1

1. 6 + 4 + 3 = 13
2. 5 + 5 + 6 = 16
3. 9 + 1 + 7 = 17
4. 3 + 3 + 6 = 12
5. 7 + 3 + 5 = 15

Day 5 Y1 Adding 3 numbers Sheet 2

7 + 6 + 3	☺	7 + 3	pair to 10
8 + 1 + 9	☺	9 + 1	pair to 10
5 + 3 + 5	☺	5 + 5	double
5 + 6 + 6	☺	6 + 6	double
3 + 8 + 6	☹	other	
4 + 7 + 9	☹	other	

Day 5 Y2 Adding using number facts Sheet 3

Add these numbers	Pairs to 10	Doubles	Other facts	Answer
1, 9, 3	9 + 1 =10			10 + 3 = 13
3, 7, 4	7 + 3 = 10			10 + 4 = 14
4, 5, 4		4 + 4 = 8		8 + 5 = 13
6, 2, 6		6 + 6 = 12		12 + 2 = 14
2, 5, 8	8 + 2 = 10			10 + 5 = 15
5, 4, 9, 4, 1	9 + 1 =10	4 + 4 = 8		10 + 8 + 5 = 23
3, 6, 7, 6, 3	7 + 3 = 10	6 + 6 = 12		10 + 12 + 3 = 25
9, 2, 4, 8, 6	6 + 4 = 10 8 + 2 = 10			10 + 10 + 9 = 29
7, 5, 7, 4, 5		5 + 5 = 10 7 + 7 = 14		10 + 14 + 4 = 28
9, 3, 4, 3, 5		3 + 3 = 6	5 + 4 = 9	6 + 9 + 9 = 24
8, 4, 2, 4,1	8 + 2 = 10	4 + 4 = 8		10 + 8 + 1 = 19

Addition and subtraction

Answers

Day 5 Y2 Adding using number facts Sheet 4

Add these numbers	Pairs to 10	Doubles	Other facts	Answer
5, 4, 9, 4, 1	9 + 1 =10	4 + 4 = 8		10 + 8 + 5 = 23
3, 6, 7, 6, 3	7 + 3 = 10	6 + 6 = 12		10 + 12 + 3 = 25
9, 2, 4, 8, 6	8 + 2 = 10 6 + 4 = 10			10 + 10 + 9 = 29
7, 5, 7, 4, 5		5 + 5 = 10 7 + 7 = 14		14 + 10 + 4 = 28
9, 3, 4, 3, 5		3 + 3 = 6	5 + 4 = 9 9 + 9 = 18	18 + 6 = 24
8, 4, 2, 4, 1	8 + 2 = 10	4 + 4 = 8		10 + 8 + 1= 19
6, 2, 3, 6, 9, 7	7 + 3 = 10	6 + 6 = 12	9 + 2 = 11	12 + 11 + 10 = 33
4, 3, 8, 3, 6, 8	6 + 4 = 10	3 + 3 = 6 8 + 8 = 16		16 + 10 + 6 = 32
9, 4, 5, 2, 1, 3	9 + 1 = 10		5 + 2 + 3 = 10	10 + 10 + 4 = 24
4, 7, 4, 8, 9, 3,	7 + 3 = 10	4 + 4 = 8	8 + 8 = 16	16 + 10 + 9 = 35
2, 3, 5, 9, 4, 2		2 + 2 = 4	5 + 4 = 9 9 + 9 = 18	18 + 4 + 3 = 25
9, 1, 4, 5, 6, 9	9 + 1 = 10		5 + 4 = 9 9 + 9 = 18	18 + 10 + 6 = 34