Year 2 Maths

Addition and Subtraction Workbook

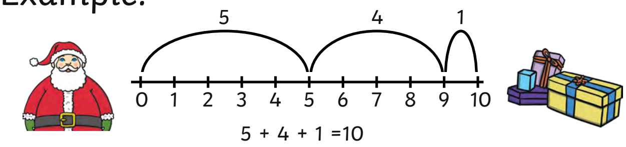
Home Learning
Year 2 Maths Workbook

Year 2 Programme of Study – Addition and Subtraction

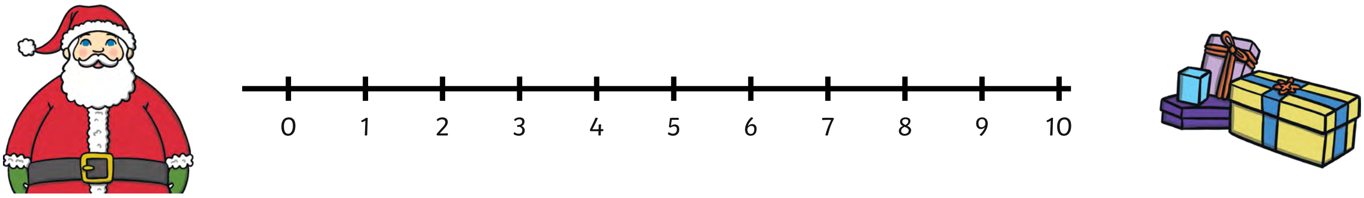
Statutory Requirements	Activity Sheet	Page Number	Notes
Solve problems with addition and subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures.	3 hops to 10 activity sheet Adding to 20 with a number line pack	3 4 - 6	
Solve problems with addition and subtraction. Applying their increasing knowledge of mental and written methods.	Colour by number addition and subtraction up to 20	7	
Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.	Addition and Subtraction facts to 20 Deriving Facts to 100	8 9	
Add and subtract numbers using concrete objects, pictorial representations, and mentally, including:			
A two-digit number and ones.	Adding 2 digit numbers and ones crossing 10	10 - 11	
A two-digit number and tens.	Adding 2 digit numbers and tens not crossing 100	12	
Two two-digit numbers.	Adding two 2-digit numbers beyond 100	13 - 15	
Adding three one-digit numbers.	Adding three one-digit numbers using number facts to 10 Adding three one-digit numbers - Which 3 numbers?	16 17	
Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot.	Addition can be done in any order - subtraction can't!	18 - 19	
Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.	Number family Activity Sheets Using Inverse Operations to check – Two Digits Plus One Digit	20 - 23 24 - 25	

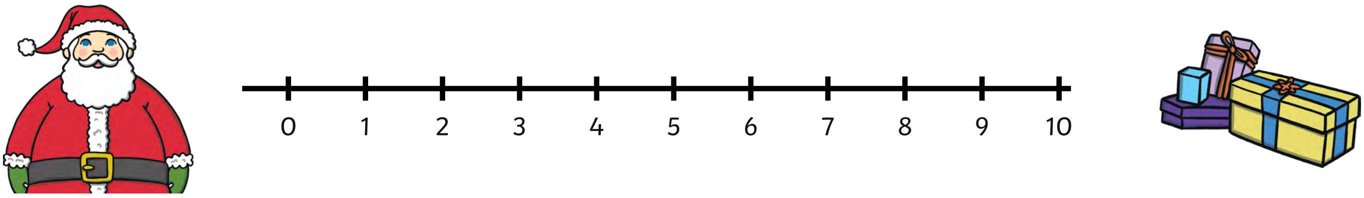
3 Jumps to 10 Activity Sheet

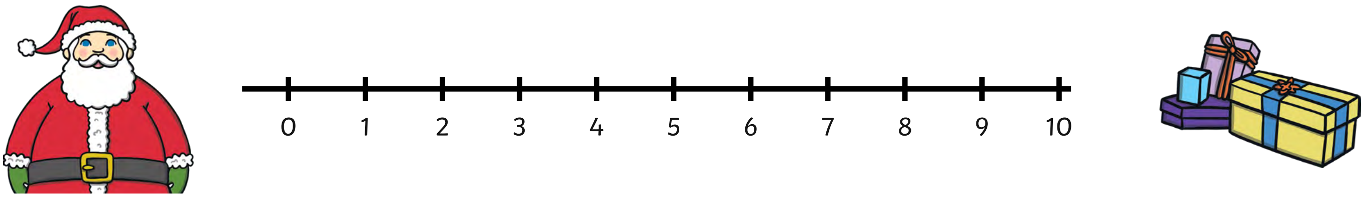
Example:

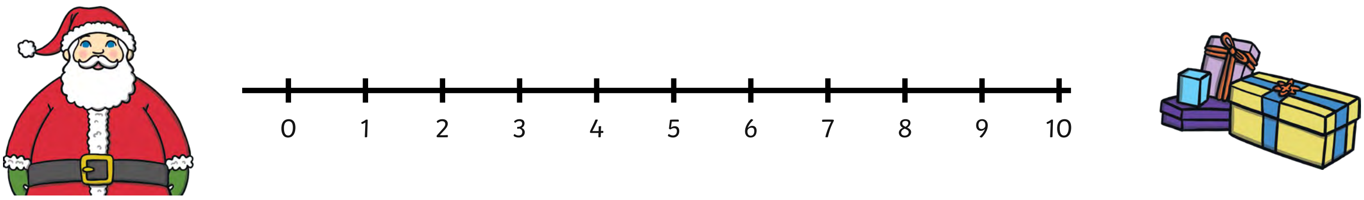


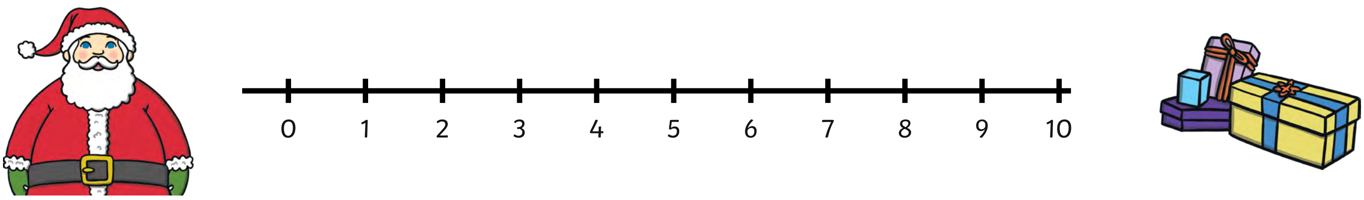
Santa says he can get to his presents in 3 Jumps! Find different ways that Santa can do this and draw them on the number lines. Can you write number sentences to match his jumps?





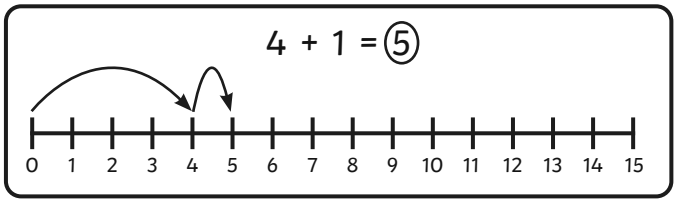




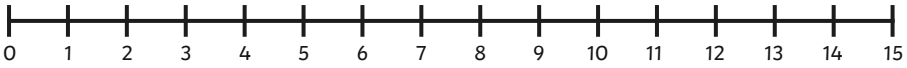


How many other ways can you find? Can you find them all?

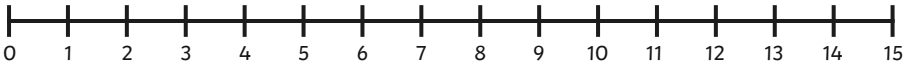
Addition to 20 on a Number Line



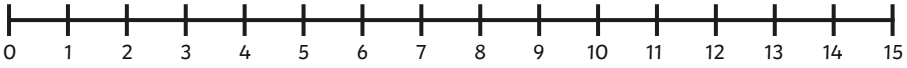
1. 5 + 3 = ☐



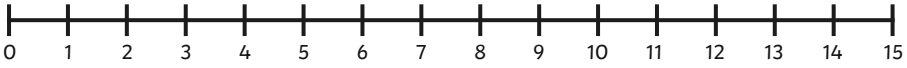
2. 8 + 3 = ☐



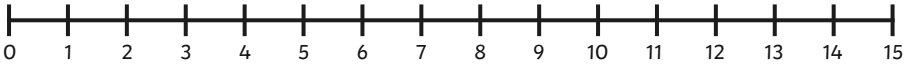
3. 6 + 6 = ☐



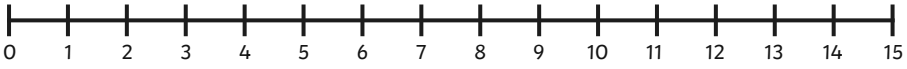
4. 4 + 5 = ☐



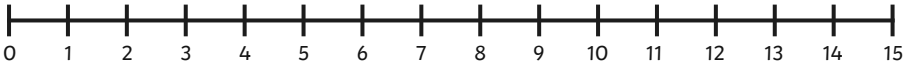
5. 4 + 7 = ☐



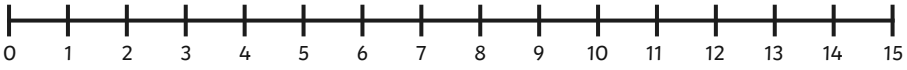
6. 7 + 6 = ☐



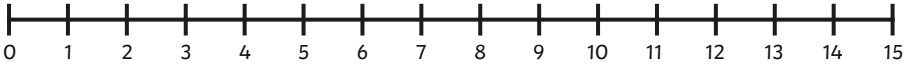
7. 8 + 4 = ☐



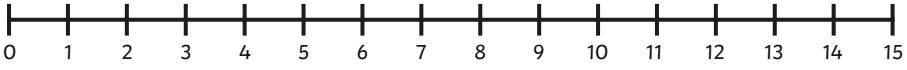
8. 9 + 6 = ☐



9. 3 + 9 = ☐



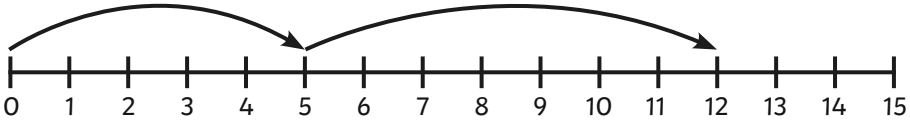
10. 2 + 10 = ☐



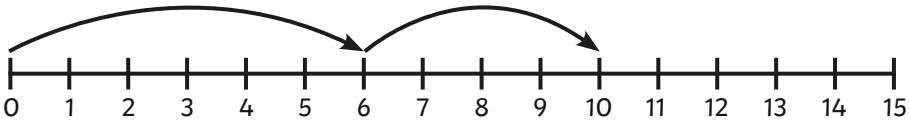
Addition to 20 on a Number Line

For these questions, can you work out which sums are being shown on the number lines? The first one has been done for you.

1. 5 + 7 = 12

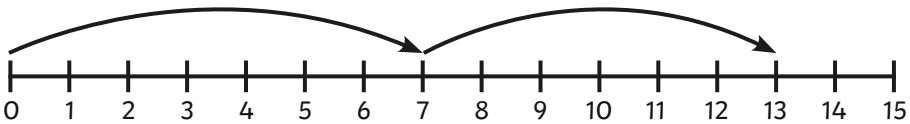


2. ☐ + ☐ = ☐

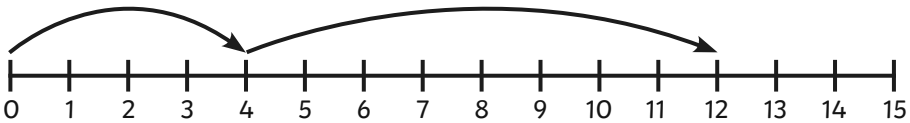


3. ☐ + ☐ = ☐

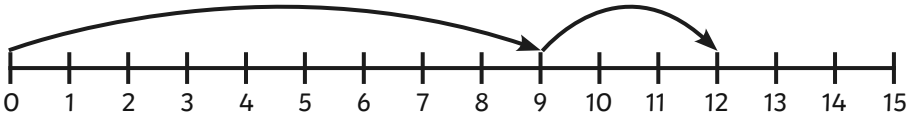
4. ☐ + ☐ = ☐



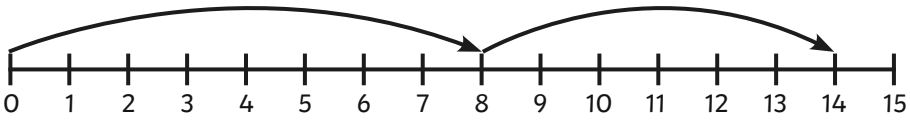
5. ☐ + ☐ = ☐



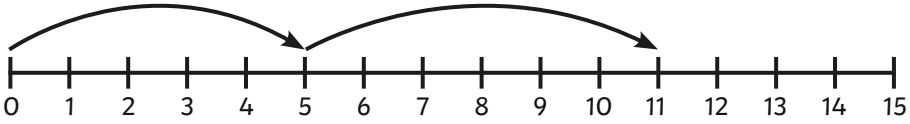
6. ☐ + ☐ = ☐



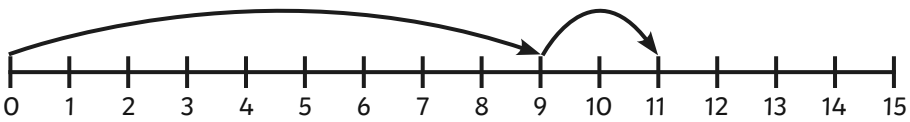
7. ☐ + ☐ = ☐



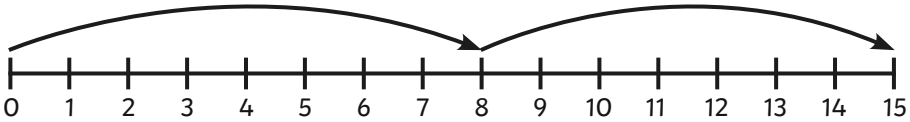
8. ☐ + ☐ = ☐



9. ☐ + ☐ = ☐



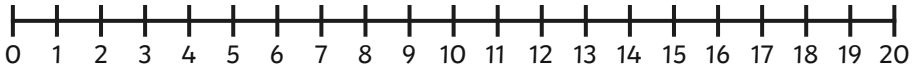
10. ☐ + ☐ = ☐



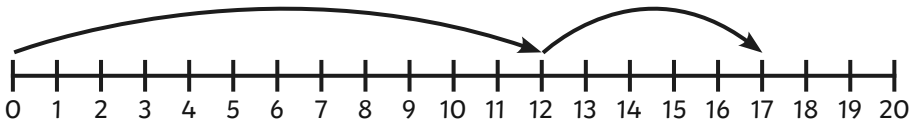
Addition to 20 on a Number Line

Practise what you have learned so far on a number line to 20 and progress to see if you can draw your own number line!

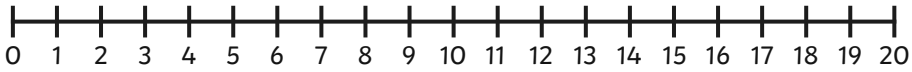
1. 11 + 4 = ☐



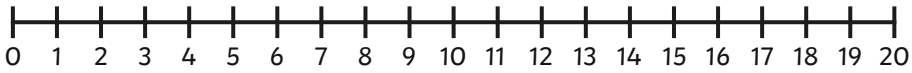
2. ☐ + ☐ = ☐



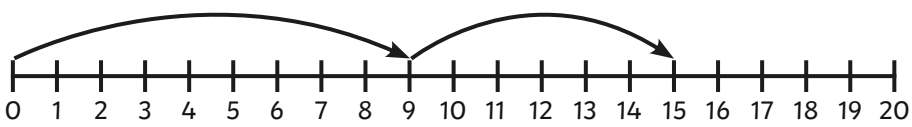
3. 8 + 9 = ☐



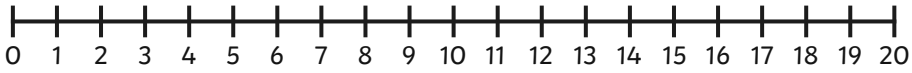
4. 6 + ☐ = 9



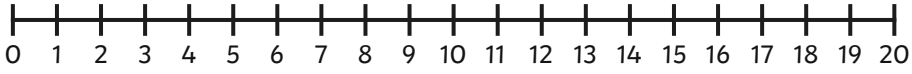
5. ☐ + ☐ = ☐



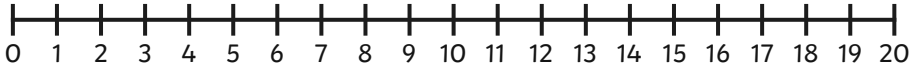
6. ☐ + 7 = 11



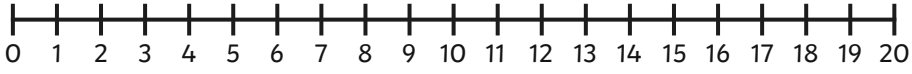
7. 9 + 9 = ☐



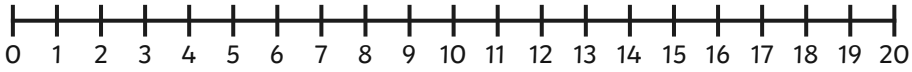
8. 12 + 3 = ☐



9. 7 + 9 = ☐



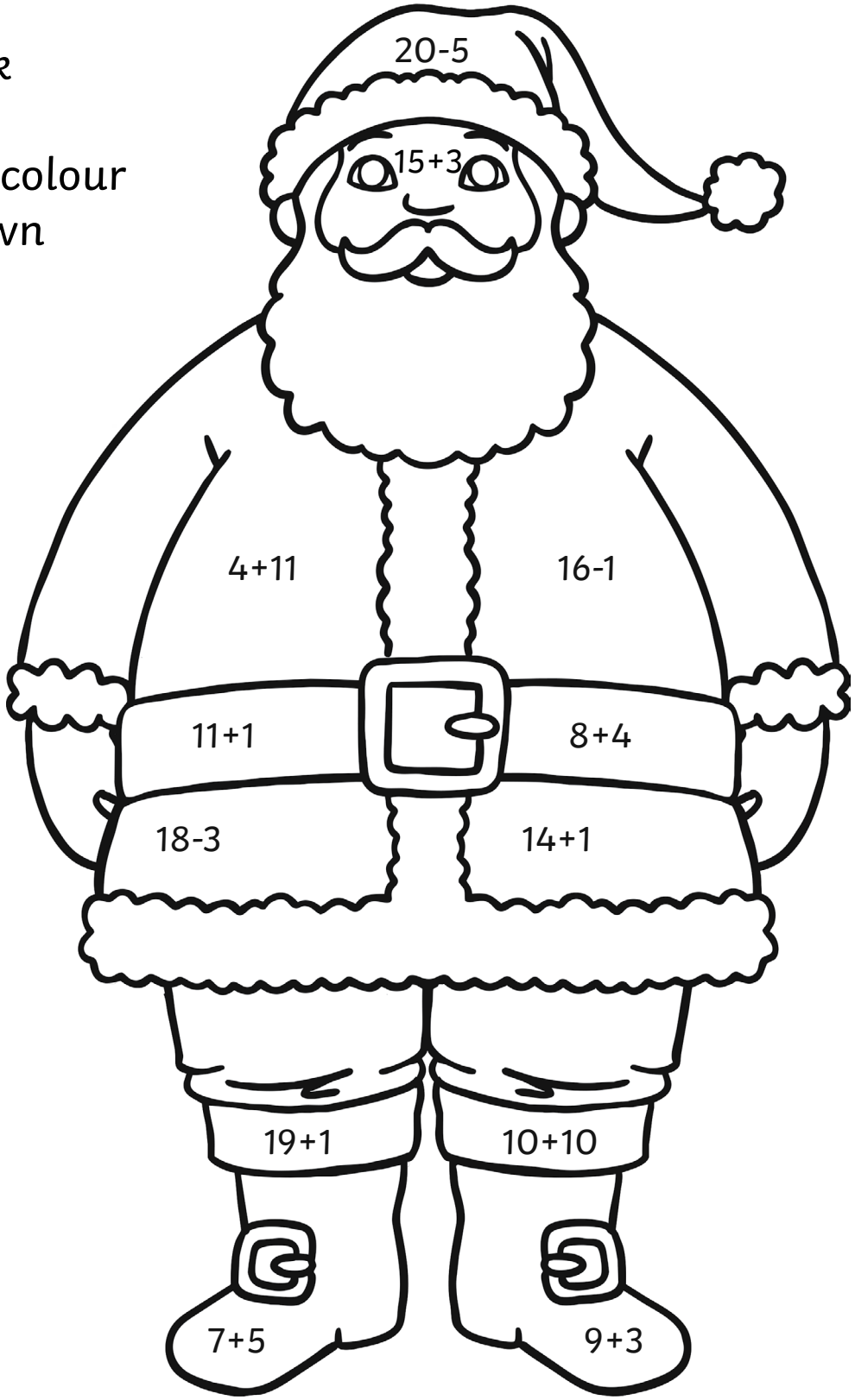
10. 13 + 5 = ☐



Santa Colour by Number Addition and Subtraction up to 20

Solve the calculations in the picture to work out what colours they should be!

12 = black
15 = red
18 = skin colour
20 = brown



Addition and Subtraction Facts to 20 – Speed Test

See how long it takes you to complete all of these or give yourself a set amount of time (say 5 mins) and see how many you can do.

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

Correct answers: _____ Time: _____

Deriving Facts to 100

For each of the following, complete the number fact to 10 and then derive the number fact to 100. The first one has been done for you.

1. 7 + 2 = 9

   70 + 20 = 90

2. 7 - 4 =

   70 - 40 =

3. 3. 4 + 6 =

   40 + 60 =

4. 3 + 6 =

   30 + 60 =

5. 5 - 3 =

   50 - 30 =

6. 8 - 3 =

   80 - 30 =

7. 10 - 7 =

   100 - 70 =

8. 9 + 1 =

   90 + 10 =

9. 5 + 4 =

   50 + 40 =

10. 3 - 2 =

    30 - 20 =

11. 9 - 8 =

    90 - 80 =

12. 10 - 5 =

    100 - 50 =

Use the appropriate number fact to ten mentally to derive the number fact to 100.

1. 50 + 50 =
2. 40 + 30 =
3. 60 - 40 =
4. 80 – 30 =
5. 10 + 80 =
6. 20 + 60 =
7. 90 – 60 =
8. 50 – 40 =
9. 20 + 80 =
10. 80 – 70 =
11. 40 + 40 =
12. 70 – 20 =

Adding 2-Digit Numbers and Ones Crossing 10

1

1. 5 + 6 = _____ 15 + 6 = _____ 45 + 6 = _____ 65 + 6 = _____	2. 8 + 3 = _____ 18 + 3 = _____ 38 + 3 = _____ 78 + 3 = _____
3. 6 + 8 = _____ 16 + 8 = _____ 46 + 8 = _____ 96 + 8 = _____	4. 7 + 5 = _____ 17 + 5 = _____ 67 + 5 = _____ 87 + 5 = _____
5. 5 + 9 = _____ 15 + 9 = _____ 45 + 9 = _____ 85 + 9 = _____	6. 6 + 7 = _____ 16 + 7 = _____ 46 + 7 = _____ 76 + 7 = _____
7. 9 + 3 = _____ 19 + 3 = _____ 59 + 3 = _____ 99 + 3 = _____	8. 4 + 9 = _____ 14 + 9 = _____ 54 + 9 = _____ 74 + 9 = _____
9. 7 + 8 = _____ 17 + 8 = _____ 57 + 8 = _____ 97 + 8 = _____	10. 5 + 8 = _____ 15 + 8 = _____ 65 + 8 = _____ 85 + 8 = _____

Adding 2-Digit Numbers and Ones Crossing 10

2

1. 5 + 4 = _____ 15 + 4 = _____ 35 + 4 = _____ 75 + 4 = _____	2. 8 + 6 = _____ 18 + 6 = _____ 28 + 6 = _____ 68 + 6 = _____
3. 2 + 8 = _____ 12 + 8 = _____ 52 + 8 = _____ 92 + 8 = _____	4. 7 + 6 = _____ 17 + 6 = _____ 47 + 6 = _____ 67 + 6 = _____
5. 5 + 2 = _____ 15 + 2 = _____ 25 + 2 = _____ 65 + 2 = _____	6. 9 + 7 = _____ 19 + 7 = _____ 39 + 7 = _____ 99 + 7 = _____
7. 7 + 3 = _____ 17 + 3 = _____ 47 + 3 = _____ 67 + 3 = _____	8. 4 + 8 = _____ 14 + 8 = _____ 44 + 8 = _____ 64 + 8 = _____
9. 9 + 8 = _____ 19 + 8 = _____ 49 + 8 = _____ 79 + 8 = _____	10. 1 + 8 = _____ 11 + 8 = _____ 61 + 8 = _____ 71 + 8 = _____

Adding 2-Digit Numbers and Tens, Not Crossing 100

1. 30 + 10 = _____ 35 + 10 = _____ 37 + 10 = _____ 38 + 10 = _____	2. 20 + 30 = _____ 25 + 30 = _____ 26 + 30 = _____ 29 + 30 = _____
3. 10 + 20 = _____ 16 + 20 = _____ 17 + 20 = _____ 19 + 20 = _____	4. 40 + 50 = _____ 43 + 50 = _____ 44 + 50 = _____ 48 + 50 = _____
5. 50 + 30 = _____ 54 + 30 = _____ 55 + 30 = _____ 58 + 30 = _____	6. 20 + 60 = _____ 25 + 60 = _____ 27 + 60 = _____ 28 + 60 = _____
7. 60 + 20 = _____ 61 + 20 = _____ 64 + 20 = _____ 68 + 20 = _____	8. 70 + 20 = _____ 72 + 20 = _____ 74 + 20 = _____ 78 + 20 = _____
9. _____ + 40 = 70 _____ + 40 = 71 _____ + 40 = 74 _____ + 40 = 77	9. _____ + 60 = 90 _____ + 60 = 93 _____ + 60 = 96 _____ + 60 = 99

Adding Two 2-Digit Numbers Beyond 100

1

Add together these two digit numbers:

1. 61 + 72 = _____

2. 95 + 64 = _____

3. 75 + 78 = _____

4. 47 + 83 = _____

5. 29 + 86 = _____

6. 74 + 93 = _____

7. 56 + 87 = _____

8. 79 + 45 = _____

9. 38 + 88 = _____

10. 66 + 57 = _____

11. 87 + 56 = _____

12. 92 + 93 = _____

13. 62 + 79 = _____

14. 61 + 72 = _____

15. 83 + 74 = _____

16. 70 + 65 = _____

17. 38 + 72 = _____

18. 93 + 87 = _____

19. 65 + 93 = _____

20. 88 + 86 = _____

21. 67 + 74 = _____

Adding Two 2-Digit Numbers Beyond 100

2

Add together these two digit numbers:

1. 45 + 85 = _____

2. 63 + 73 = _____

3. 32 + 69 = _____

4. 32 + 39 = _____

5. 49 + 92 = _____

6. 57 + 65 = _____

7. 83 + 89 = _____

8. 72 + 70 = _____

9. 18 + 87 = _____

10. 77 + 66 = _____

11. 69 + 78 = _____

12. 71 + 92 = _____

13. 39 + 86 = _____

14. 79 + 69 = _____

15. 58 + 78 = _____

16. 93 + 96 = _____

17. 85 + 82 = _____

18. 56 + 99 = _____

19. 78 + 78 = _____

20. 8 + 65 = _____

21. 83 + 76 = _____

Adding Two 2-Digit Numbers Beyond 100

3

Add together these two digit numbers:

1. 57 + 64 = _____

2. 38 + 97 = _____

3. 26 + 87 = _____

4. 56 + 54 = _____

5. 98 + 56 = _____

6. 72 + 87 = _____

7. 82 + 54 = _____

8. 92 + 61 = _____

9. 78 + 79 = _____

10. 51 + 76 = _____

11. 94 + 64 = _____

12. 73 + 96 = _____

13. 26 + 76 = _____

14. 84 + 79 = _____

15. 52 + 69 = _____

16. 73 + 93 = _____

17. 46 + 72 = _____

18. 91 + 67 = _____

19. 77 + 27 = _____

20. 22 + 95 = _____

21. 64 + 47 = _____

Adding Three One-Digit Numbers to 10

Circle the pairs of numbers that add up to 10, then add the third number to make the total.

1. 4 + 6 + 3 =	2. 5 + 5 + 6 =	3. 7 + 3 + 4 =
4. 8 + 2 + 9 =	5. 1 + 9 + 7 =	6. 7 + 2 + 3 =
7. 6 + 3 + 4 =	8. 3 + 8 + 7 =	9. 5 + 3 + 5
10. 2 + 9 + 8 =	11. 5 + 8 + 5 =	12. 5 + 7 + 3 =
13. 4 + 8 + 2 =	14. 9 + 5 + 1 =	15. 8 + 2 + 7 =
16. 7 + 7 + 3 =	17. 4 + 8 + 2 =	18. 5 + 5 + 5 =
19. 3 + 3 + 7 =	20. 8 + 8 + 2 =	21. 6 + 4 + 6 =
22. 5 + 2 + 5 =	23. 1 + 1 + 9 =	24. 7 + 8 + 3 =
25. 5 + 7 + 5 =	26. 6 + 4 + 9 =	27. 7 + 2 + 3 =
28. 6 + 3 + 7 =	29. 7 + 6 + 4 =	30. 9 + 2 + 8 =

Challenge: Can you use number bonds to 10 to make sets of 4 one-digit numbers that total 20? How many different sets can you make?

Adding Three One-Digit Numbers - Which 3 Numbers?

Choose 3 numbers which add to the total given. Write as a calculation.

Which 3 numbers add to 15? 4 5 7 6 1 ____ + ____ +____ = 15	Which 3 numbers add to 20? 6 5 9 2 6 ____ + ____ +____ = 20	Which 3 numbers add to 23? 4 6 8 5 9 ____ + ____ +____ = 23
Which 3 numbers add to 18? 9 1 4 5 8 ____ + ____ +____ = 18	Which 3 numbers add to 7? 4 6 2 3 1 ____ + ____ +____ = 7	Which 3 numbers add to 8? 2 3 5 5 1 ____ + ____ +____ = 8
Which 3 numbers add to 16? 3 7 8 1 2 ____ + ____ +____ = 16	Which 3 numbers add to 13? 3 5 7 9 5 ____ + ____ +____ = 13	Which 3 numbers add to 19? 4 6 8 5 9 ____ + ____ +____ = 19
Which 3 numbers add to 20? 8 4 5 6 8 ____ + ____ +____ = 20	Which 3 numbers add to 11? 3 4 2 5 1 ____ + ____ +____ = 11	Which 3 numbers add to 24? 8 7 6 9 5 ____ + ____ +____ = 24
Which 3 numbers add to 12? 3 2 4 5 1 ____ + ____ +____ = 12	Which 3 numbers add to 22? 7 8 2 9 5 ____ + ____ +____ = 22	Which 3 numbers add to 15? 4 2 6 3 5 ____ + ____ +____ = 15
Which 3 numbers add to 10? 2 3 4 1 3 ____ + ____ +____ = 10	Which 3 numbers add to 17? 6 5 8 2 4 ____ + ____ +____ = 17	Which 3 numbers add to 20? 6 7 3 4 9 ____ + ____ +____ = 20
Which 3 numbers add to 14? 3 5 7 8 4 ____ + ____ +____ = 14	Which 3 numbers add to 9? 4 3 5 4 1 ____ + ____ +____ = 9	Which 3 numbers add to 12? 3 8 1 2 5 ____ + ____ +____ = 12

Challenge: using just 1, 2, 3, 4 and 5, find as many ways as possible of adding 3 numbers to 8, 10 and 12.

Addition Can Be Done In Any Order - Subtraction Can't!

Numbers can be added in any order and the answer will stay the same.

E.g.

●	●	●	●	●	●	●	○	○	○		
2 +		5 +					3			=	10

●	●	●	●	●	○	○	○	●	●		
5 +					3 +			2		=	10

The total is the same! Use this to help you answer the questions below.

A.

1. $4 + 3 = 7$

   $3 + 4 = \square$

2. $9 + 2 = 11$

   $2 + 9 = \square$

3. $6 + 4 + 7 = 17$

   $4 + 7 + 6 = \square$

4. $19 + 10 = 29$

   $10 + 19 = \square$

5. $18 + 15 = 33$

   $15 + 18 = \square$

6. $2 + 7 = 9$

   $7 + \square = 9$

7. $7 + 3 + 6 = 16$

   $3 + \square + 6 = 16$

8. $4 + 5 + 6 + 5 = 20$

   $6 + \square + \square + \square = 20$

9. $23 + 20 = 43$

   $20 + \square = \square$

10. $27 + 24 = 51$

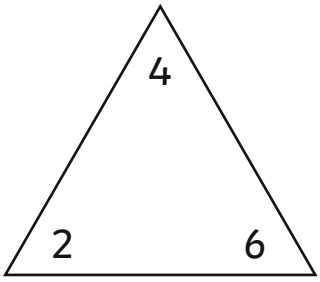
    $24 + \square = \square$

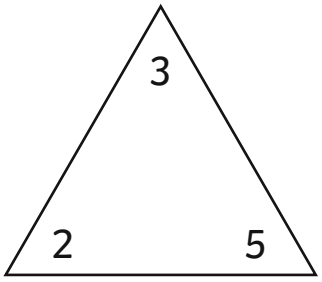
B.

		Correct?
1.	7 – 4 = 3	
	4 – 7 = 3	
2.	8 – 13 = 5	
	13 – 8 = 5	
3.	10 – 17 = 7	
	17 – 10 = 7	
4.	1 – 99 = 98	
	99 – 1 = 98	
5.	21 – 18 = 3	
	18 – 21 = 3	

		Correct?
6.	12 – 5 = 7	
	5 – 12 = 7	
7.	30 – 18 = 12	
	18 – 30 = 12	
8.	30 – 40 = 10	
	40 – 30 = 10	
9.	8 – 4 – 2 = 2	
	4 – 8 – 2 = 2	
10.	43 – 17 = 26	
	17 – 43 = 26	

Number Family Activity 1





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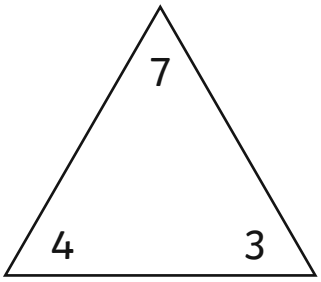

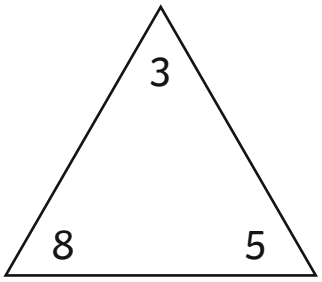

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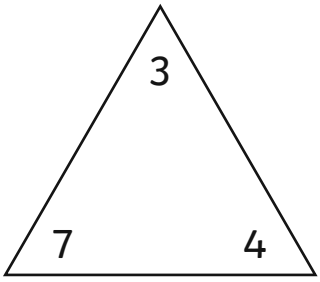
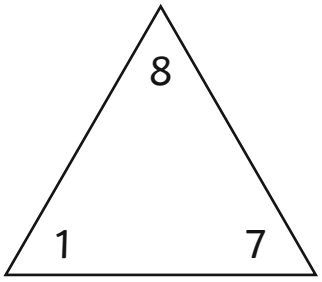
Number Family Activity 2





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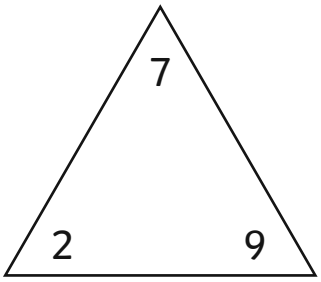

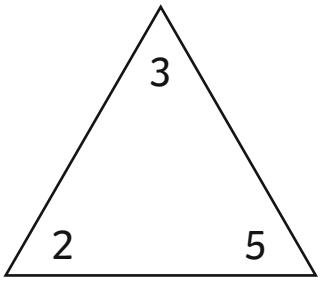

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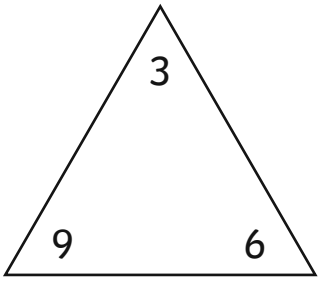
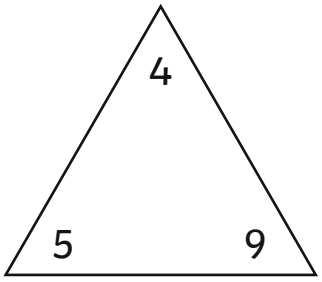
Number Family Activity 3





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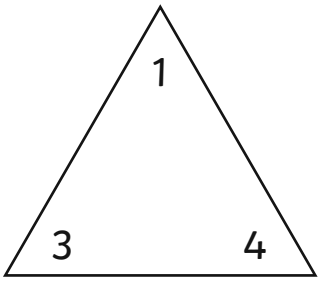

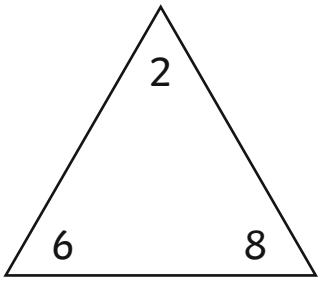

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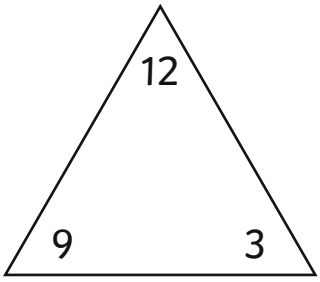
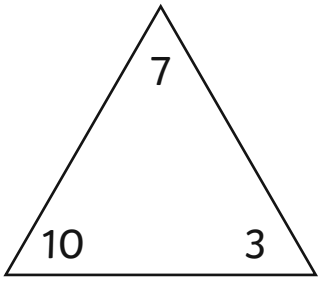
Number Family Activity 4





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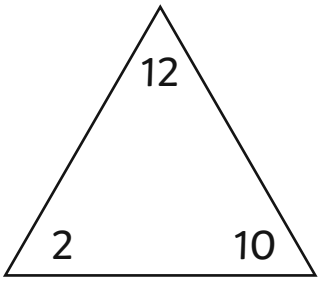

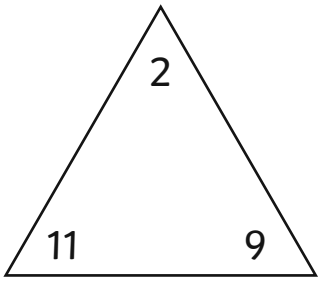

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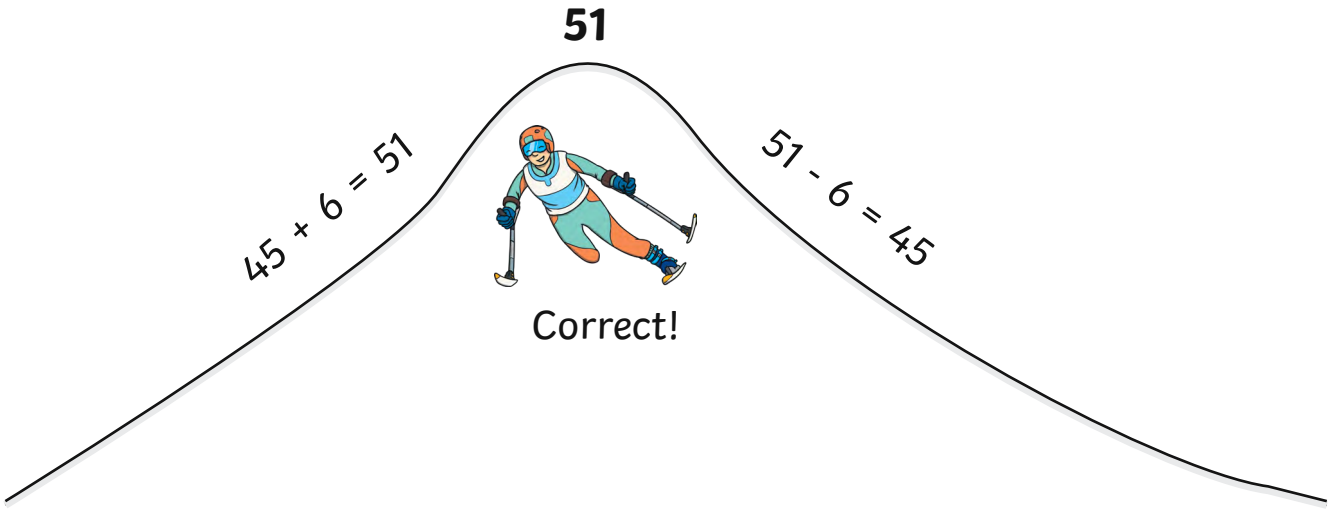
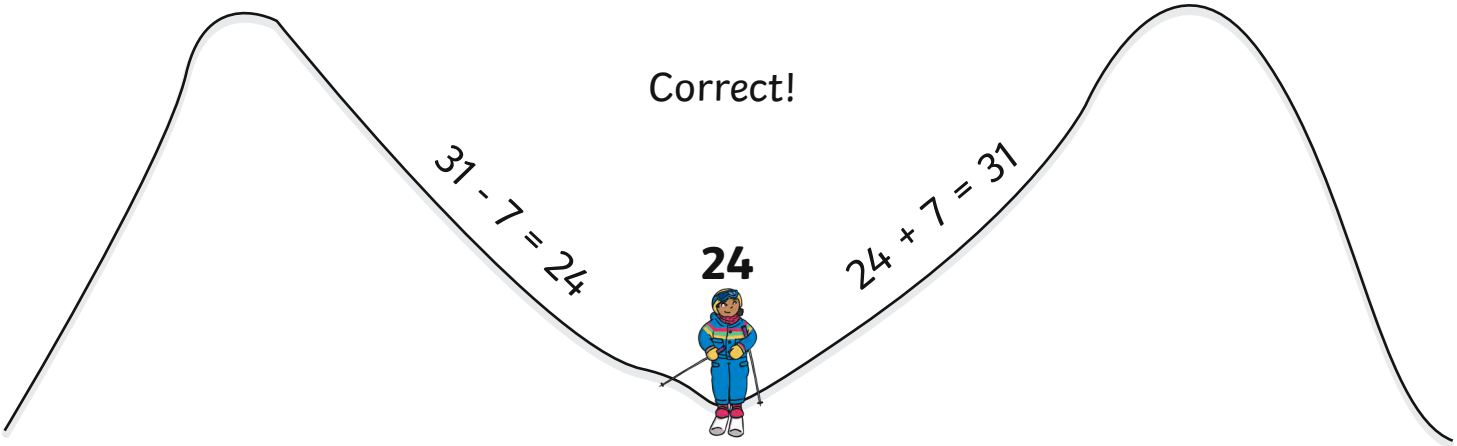
	−		=				−		=		

Using Inverse Operations to Check



For each of these addition calculations, work out the answer to the inverse operation, to check whether each answer is right or wrong.

	Correct?		Correct?
1. 37 + 7 = 43		2. 26 + 8 = 44	
43 - 7 =		44 - 8 =	
3. 25 + 8 = 33		4. 17 + 9 = 26	
33 - 8 =		26 - 9 =	
5. 47 + 5 = 52		6. 22 + 9 = 30	
52 - 5 =		30 - 22 =	
7. 34 + 6 = 40		8. 19 + 9 = 28	
40 - 34 =		28 - 9 =	
9. 76 + 8 = 85		10. 46 + 7 = 53	
85 - 76 =		53 - 46 =	



For each of these subtraction calculations, work out the answer to the inverse operation, to check whether each answer is right or wrong.

	Correct?
1. 45 – 6 = 39	
39 + 6 =	
3. 37 – 9 = 26	
26 + 9 =	
5. 31 – 3 = 28	
28 + 3 =	
7. 42 – 6 = 38	
38 + 6 =	
9. 62 – 7 = 54	
54 + 7 =	

	Correct?
2. 22 – 4 = 19	
19 + 4 =	
4. 13 – 8 = 15	
8 + 15 =	
6. 34 – 7 = 26	
26 + 7 =	
8. 51 – 6 = 45	
45 + 6 =	
10. 17 – 9 = 8	
9 + 8 =	