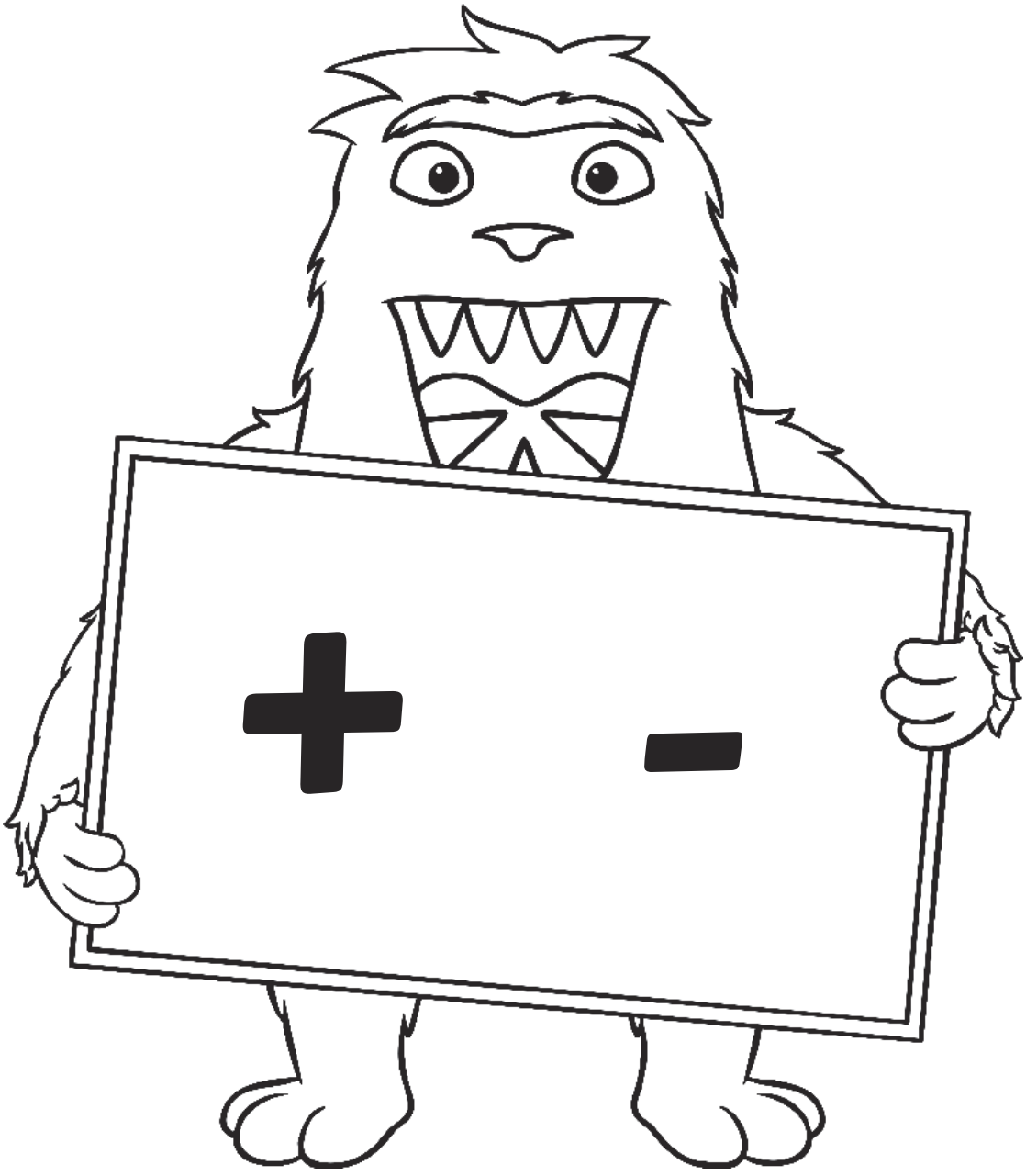
Year 2 Maths Addition and Subtraction Workbook



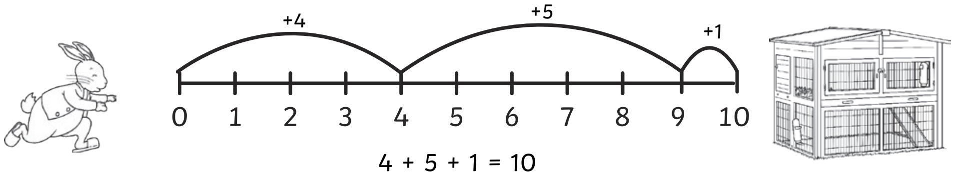
Home Learning Year 2 Maths Workbook Pack

Year 2 Programme of Study – Addition and Subtraction

Statutory Requirements	Worksheet	Page Number	Notes
Solve problems with addition and subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures.	• Hops to and from 10 • Addition to 20 on a number line • Subtraction within 20 on a number line	1 - 2 3 - 5 6 - 8	
Solve problems with addition and subtraction. Applying their increasing knowledge of mental and written methods.	• Monsters colour by number addition and subtraction up to 20	9	
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	10 11	
Add and subtract numbers using concrete objects, pictorial representations, and mentally, including:			
A two-digit number and ones.	• Adding/subtracting 2-digit numbers and ones crossing 10	12 - 15	
A two-digit number and tens.	• Adding/subtracting 2-digit numbers and tens not crossing 100	16 - 18	
Two two-digit numbers.	• Adding two 2-digit numbers beyond 100 • Subtracting tens and ones from 2-digit numbers not crossing 100 • Subtracting tens and ones from 2- digit numbers crossing 100	19 - 21 22 - 23 24 - 25	
Adding three one-digit numbers.	• Adding three one-digit numbers using number facts to 10 • Adding three one-digit numbers - Which 3 numbers?	26 27	
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!	28 - 29	
Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.	• Number family worksheets • Using Inverse Operations to check - Two Digits Plus One Digit	30 - 33 34 - 35	

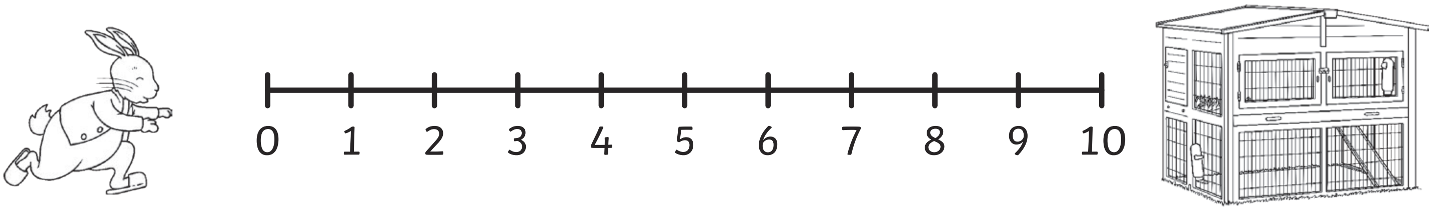
3 Hops to 10

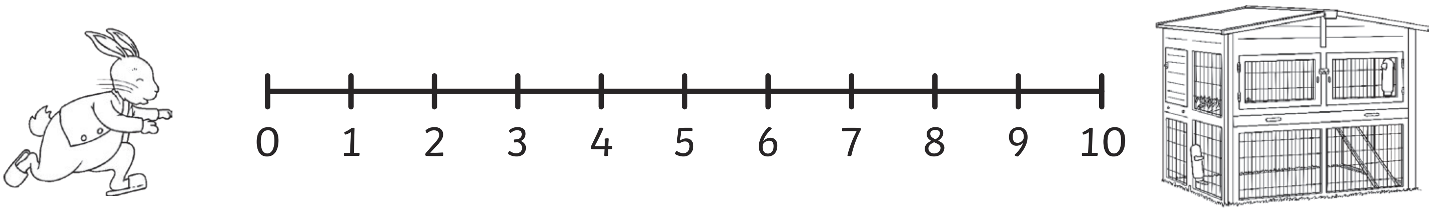
Example

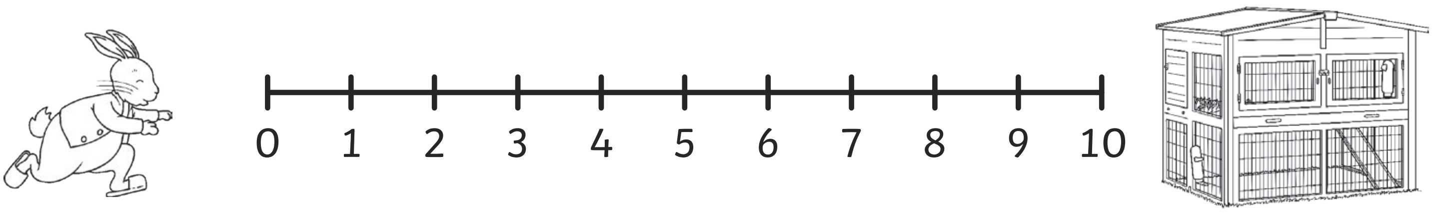


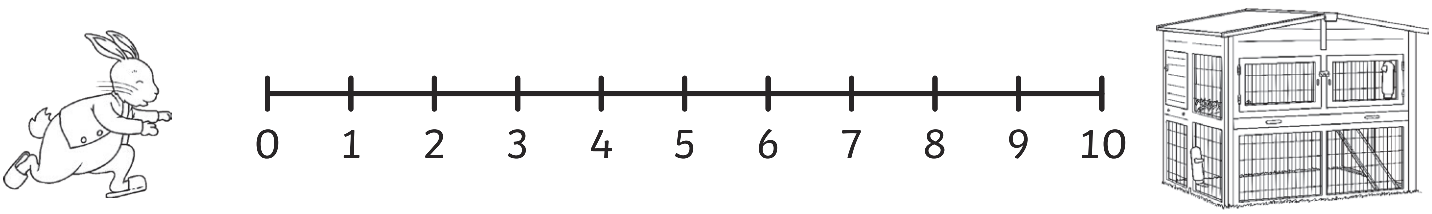
4 + 5 + 1 = 10

Peter Rabbit says he can get back to his run in 3 hops! Find different ways that Peter can do this and draw them on the number lines. Can you write number sentences to match his hops?





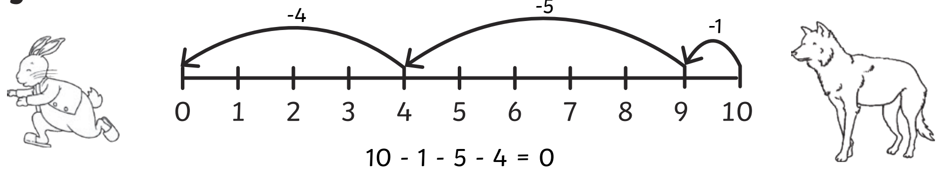




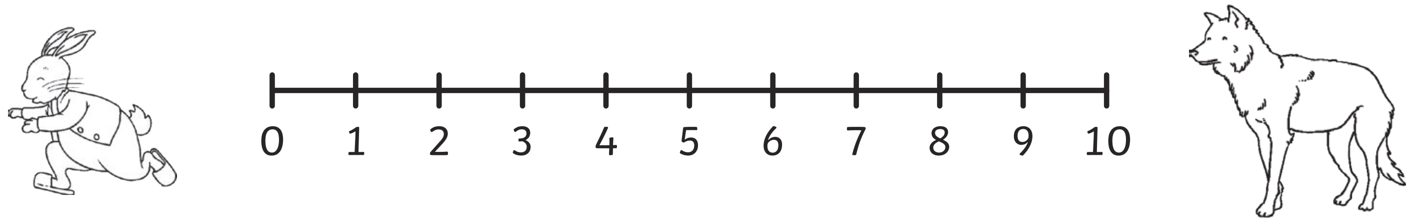
How many other ways can you find? Can you find them all?

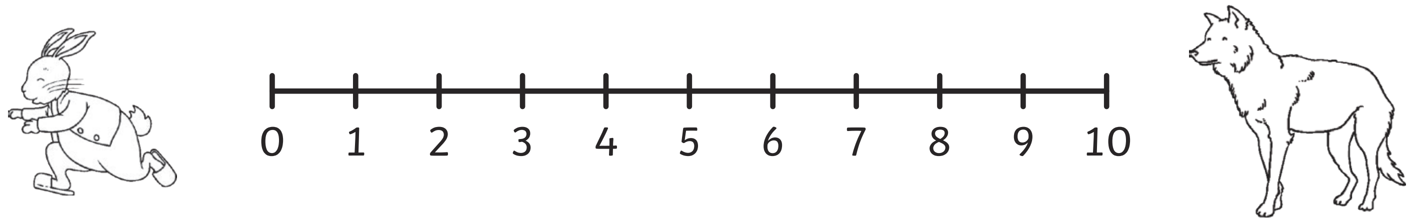
Hops down from 10

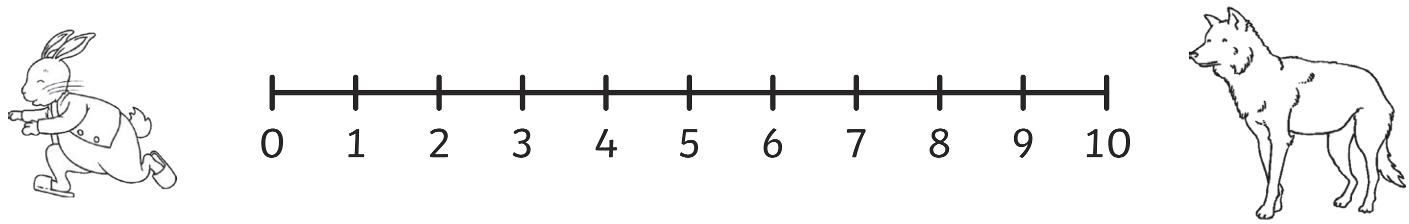
Example

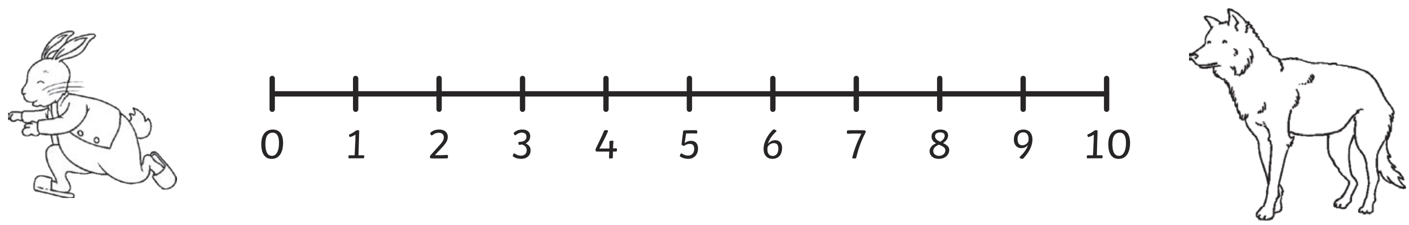


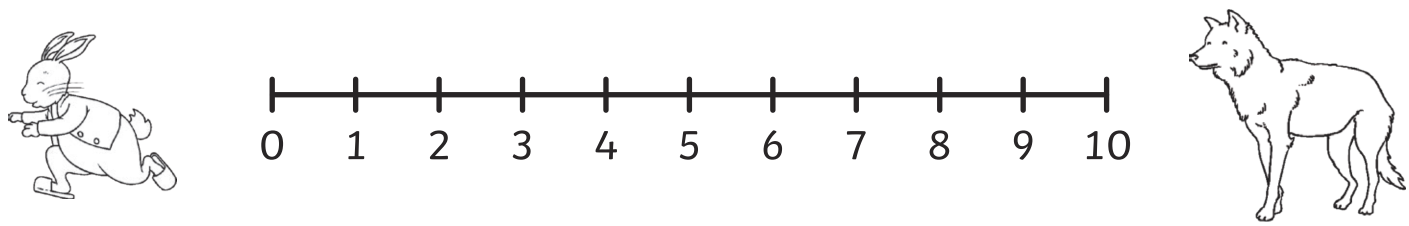
Peter Rabbit wants to hop away from the wolf in 3 hops. Find different ways that Peter Rabbit can do this and draw them on the number line. Can you describe how hopping up and hopping down from 10 are related?









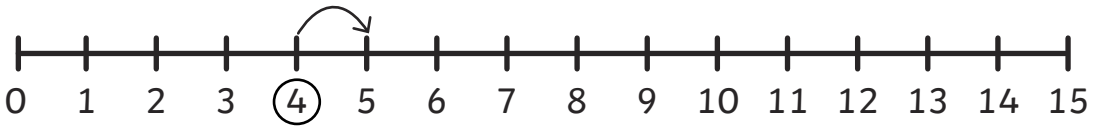


How many other ways can you find? Can you find them all?

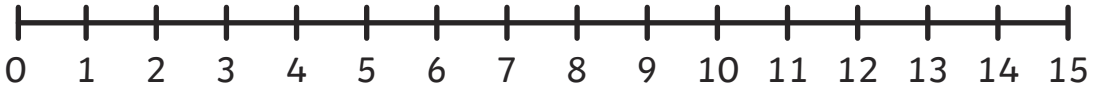
Addition to 20 on a Number Line

Example

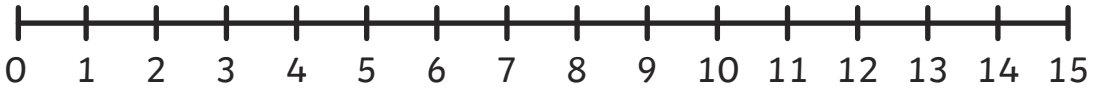
4 + 1 = **5**



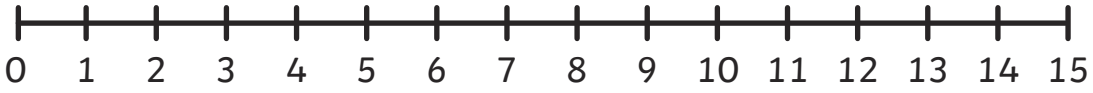
5 + 3 = ☐



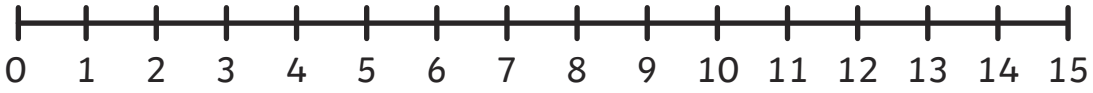
8 + 3 = ☐



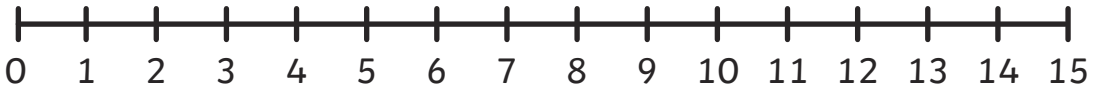
6 + 6 = ☐



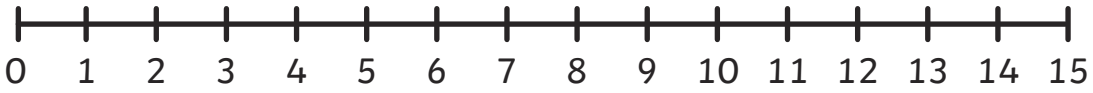
4 + 5 = ☐



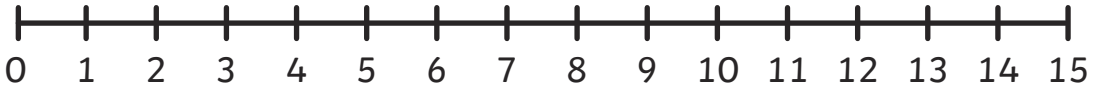
4 + 7 = ☐



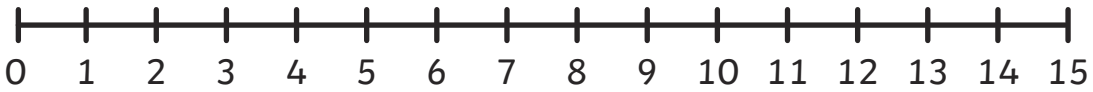
7 + 6 = ☐



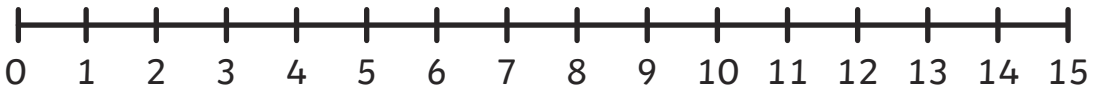
8 + 4 = ☐



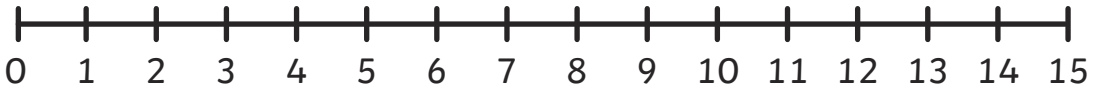
9 + 6 = ☐



3 + 9 = ☐



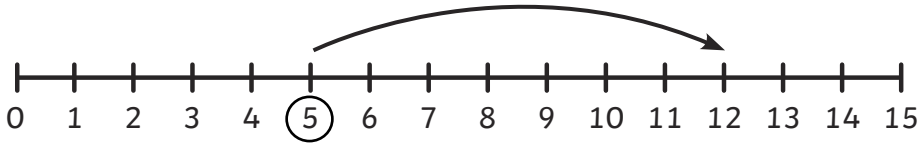
2 + 10 = ☐



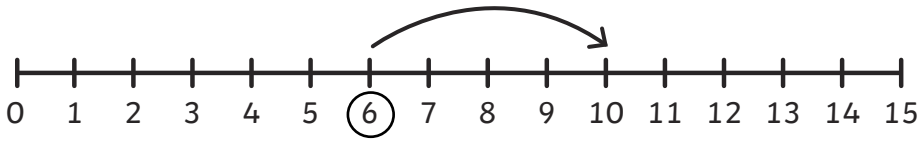
Addition to 20 on a Number Line - Sheet 2

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

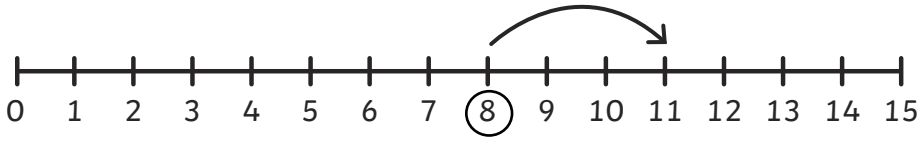
1. 5 + 7 = 12



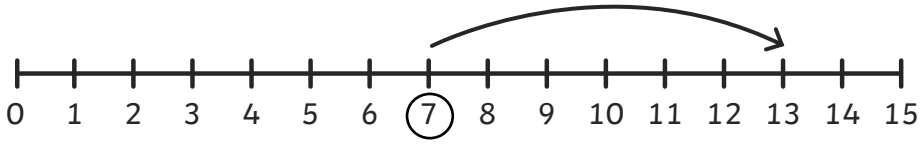
2. ☐ + ☐ = ☐



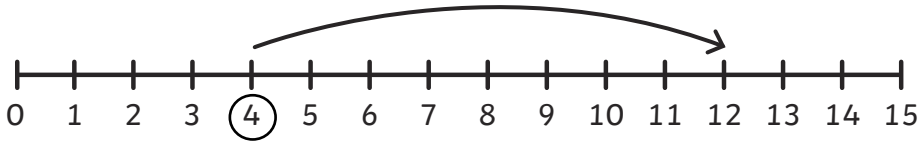
3. ☐ + ☐ = ☐



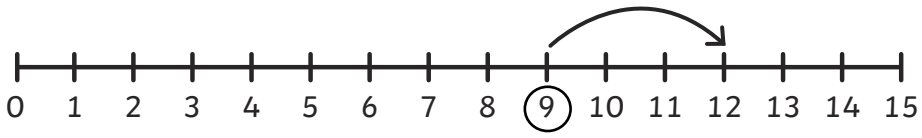
4. ☐ + ☐ = ☐



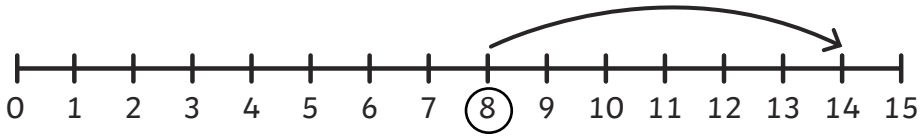
5. ☐ + ☐ = ☐



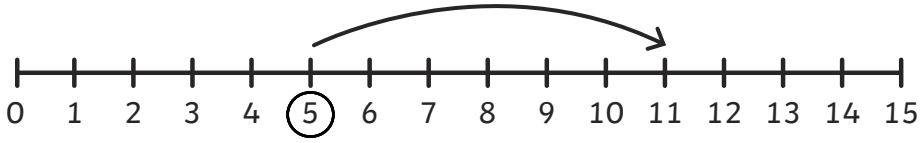
6. ☐ + ☐ = ☐



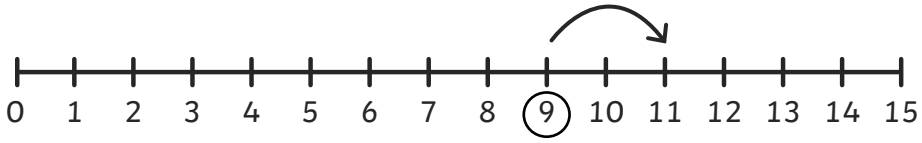
7. ☐ + ☐ = ☐



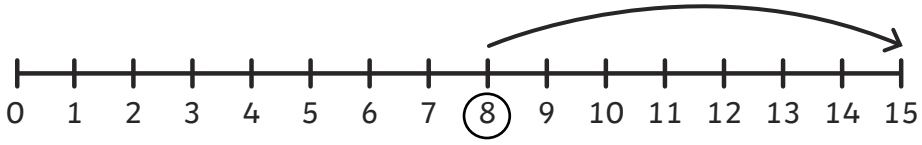
8. ☐ + ☐ = ☐



9. ☐ + ☐ = ☐



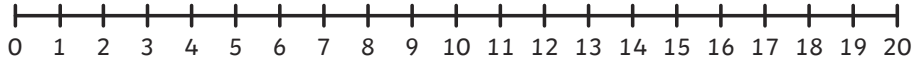
10. ☐ + ☐ = ☐



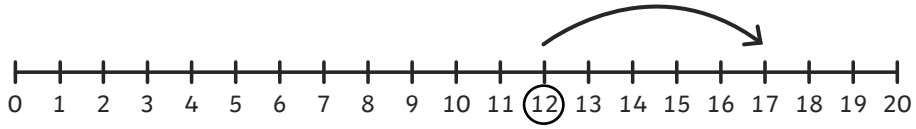
Addition to 20 on a Number Line - Sheet 3

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

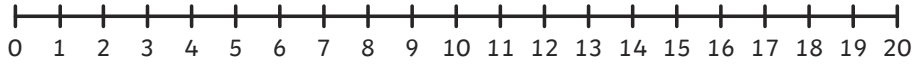
1. 11 + 4 = ☐



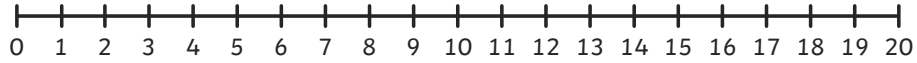
2. ☐ + ☐ = ☐



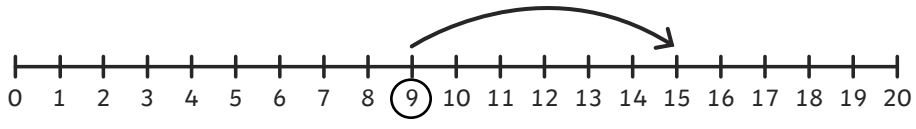
3. 8 + 9 = ☐



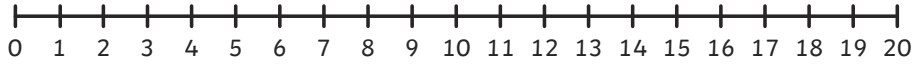
4. 6 + ☐ = 9



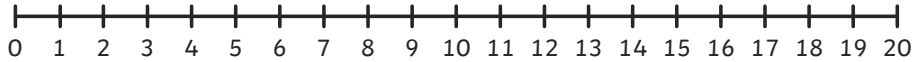
5. ☐ + ☐ = ☐



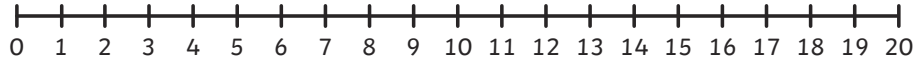
6. ☐ + 7 = 11



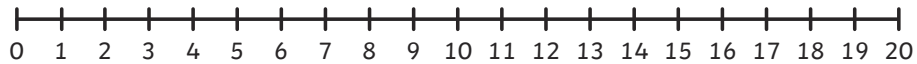
7. 9 + 9 = ☐



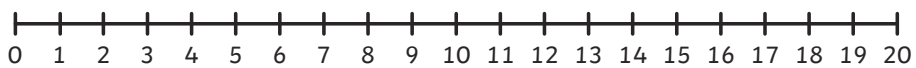
8. 12 + 3 = ☐



9. 7 + 9 = ☐

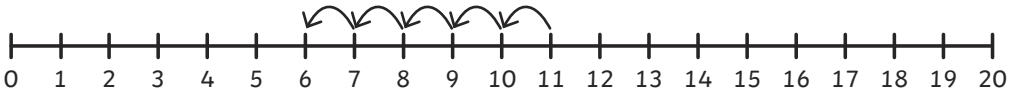


10. 13 + 5 = ☐

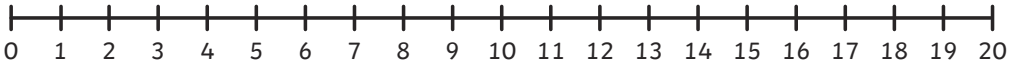


Subtraction within 20 on a Number Line

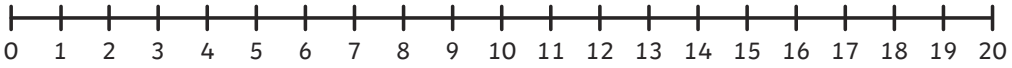
11 - 5= **6**



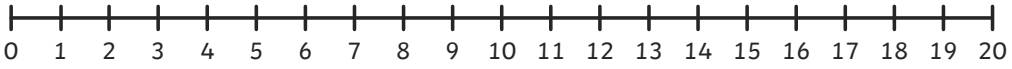
10 - 7= ☐



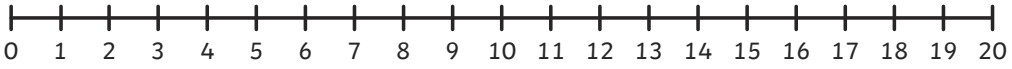
8 - 4 = ☐



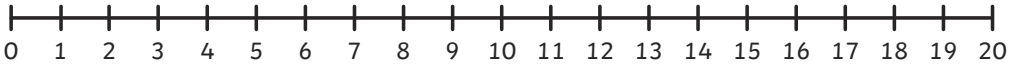
9 - 5= ☐



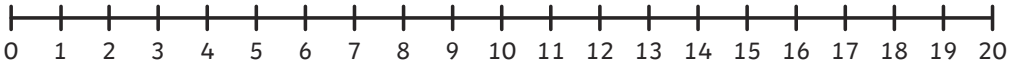
13 - 2 = ☐



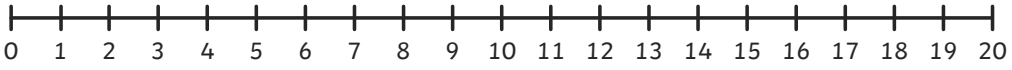
7 - 4 = ☐



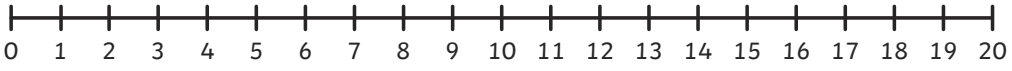
19 - 8 = ☐



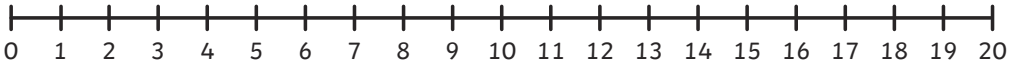
20 - 1 = ☐



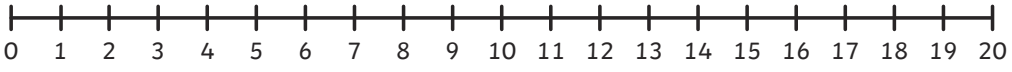
14 - 3 = ☐



16 - 3 = ☐



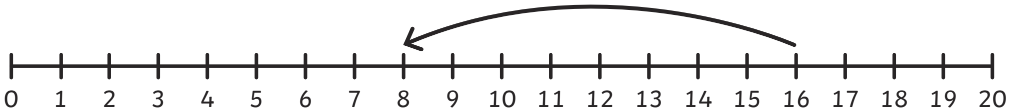
12 - 6 = ☐



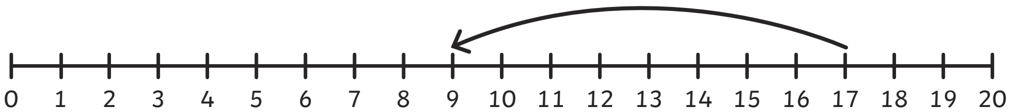
Subtraction within 20 on a Number Line - Sheet 2

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

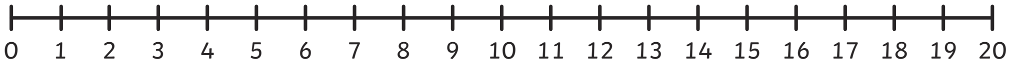
16 - 8 = 8



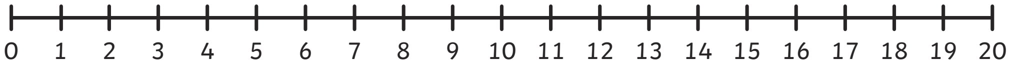
☐ - ☐ = ☐



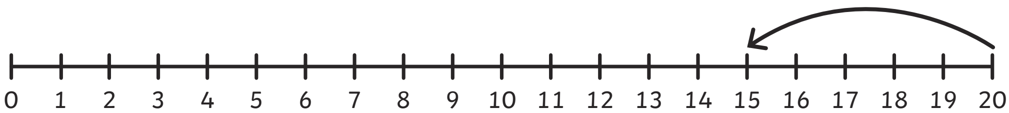
☐ - ☐ = ☐



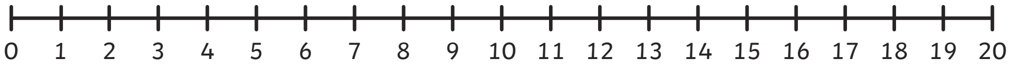
☐ - ☐ = ☐



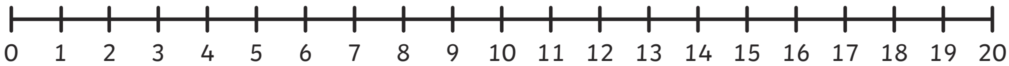
☐ - ☐ = ☐



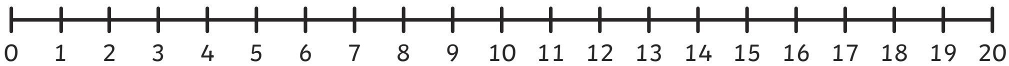
☐ - ☐ = ☐



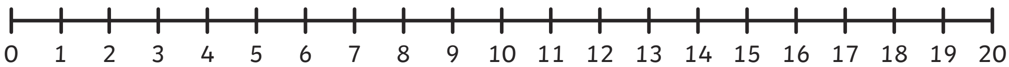
☐ - ☐ = ☐



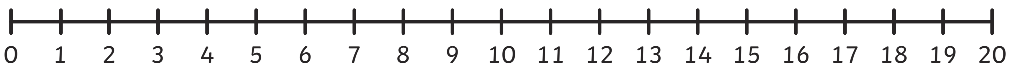
☐ - ☐ = ☐



☐ - ☐ = ☐



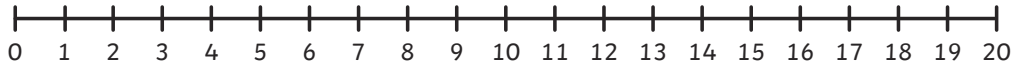
☐ - ☐ = ☐



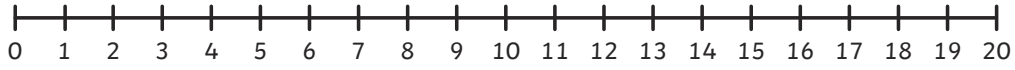
Subtraction within 20 on a Number Line - Sheet 3

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

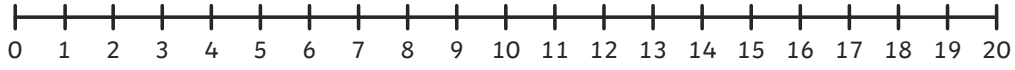
8 - 3 =



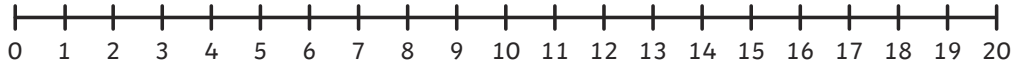
7 - 5 =



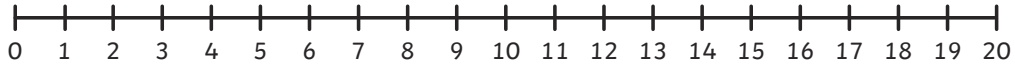
9 - 8 =



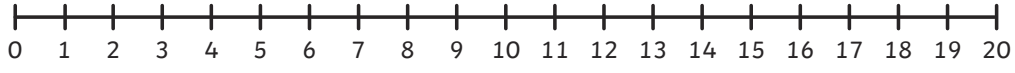
8 - 6 =



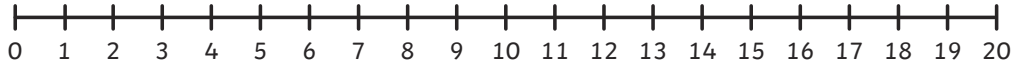
10 - 4 =



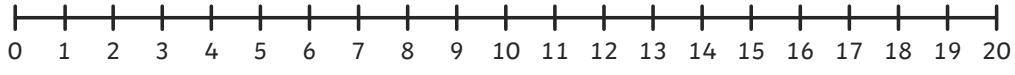
11- 9 =



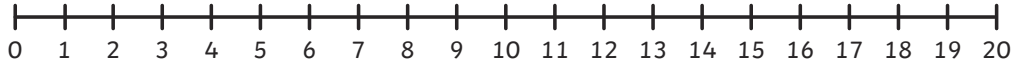
20 - 15 =



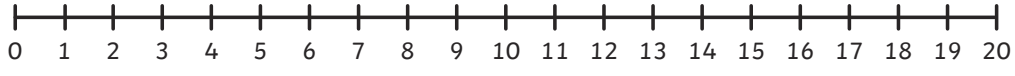
12 - 7 =



14 - 2 =

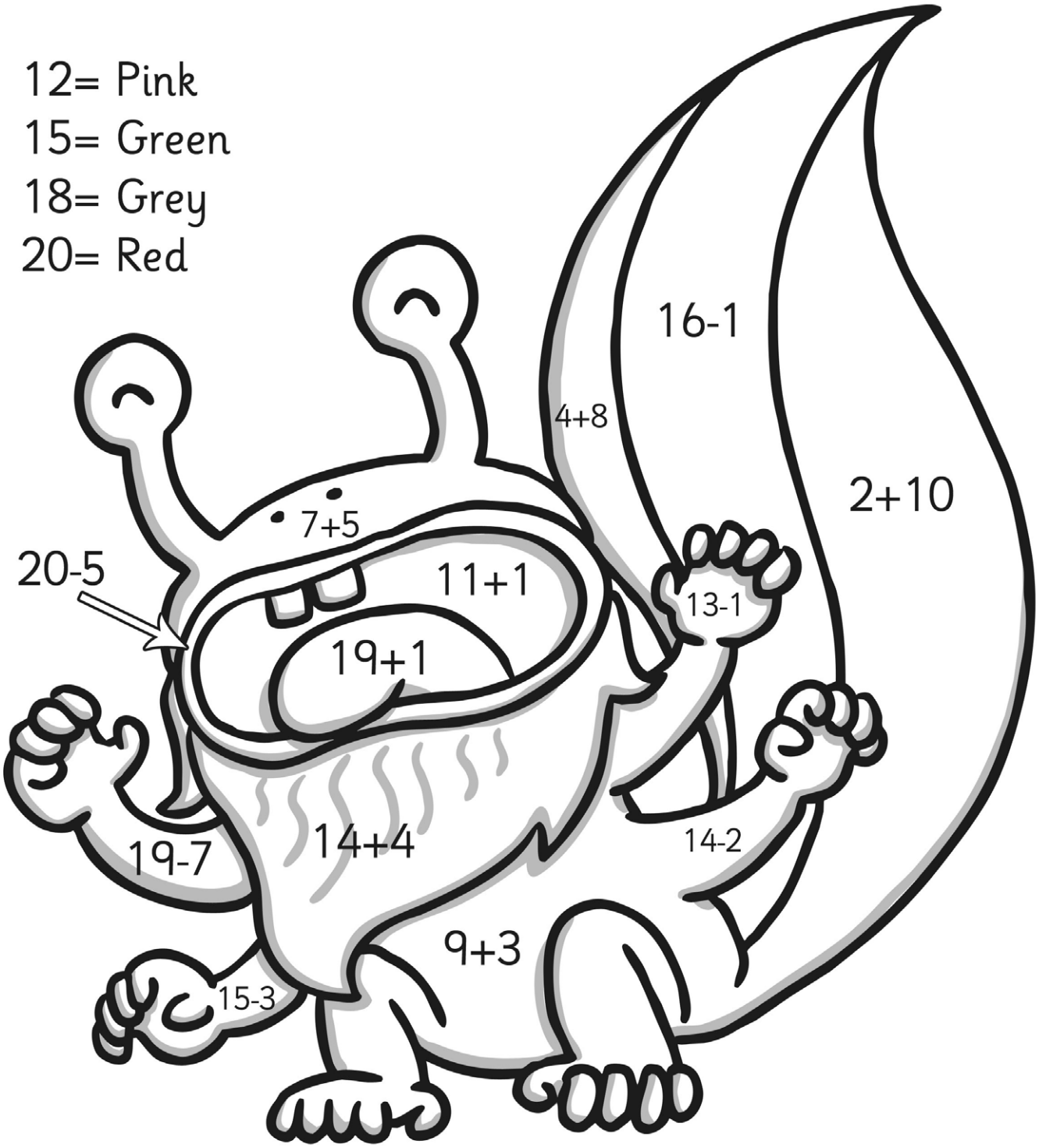


16 - 1 =

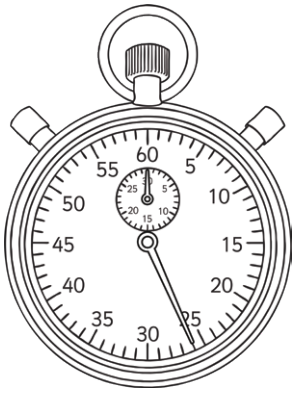


Monsters Colour by Number Addition and Subtraction up to 20

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



Addition and Subtraction Facts to 20 – Speed Test



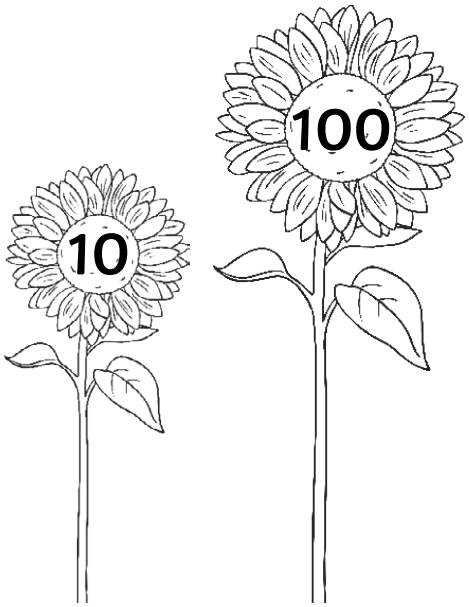
See how long it takes you to complete all of these or give yourself a set amount of time (say 5 mins) and see how many you can do.

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.



7 + 2 = 9	7 - 4 =
70 + 20 = 90	70 - 40 =
4 + 6 =	3 + 6 =
40 + 60 =	30 + 60 =
5 - 3 =	8 - 3 =
50 - 30 =	80 - 30 =
10 - 7 =	9 + 1 =
100 - 70 =	90 + 10 =
5 + 4 =	3 - 2 =
50 + 40 =	30 - 20 =
9 - 8 =	10 - 5 =
90 - 80 =	100 - 50 =

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

50 + 50 =	40 + 30 =
60 - 40 =	80 – 30 =
10 + 80 =	20 + 60 =
90 – 60 =	50 – 40 =
20 + 80 =	80 – 70 =
40 + 40 =	70 – 20 =

Adding 2-Digit Numbers and Ones Crossing 10

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 = _____ 55 + 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

7 + 4 = _____ 17 + 4 = _____ 47 + 4 = _____ 67 + 4 = _____	8 + 6 = _____ 18 + 6 = _____ 28 + 6 = _____ 68 + 6 = _____
6 + 8 = _____ 16 + 8 = _____ 56 + 8 = _____ 86 + 8 = _____	7 + 6 = _____ 17 + 6 = _____ 47 + 6 = _____ 67 + 6 = _____
12 + 2 = _____ 22 + 2 = _____ 62 + 2 = _____ 92 + 2 = _____	9 + 7 = _____ 19 + 7 = _____ 39 + 7 = _____ 99 + 7 = _____
11 + 3 = _____ 19 + 3 = _____ 59 + 3 = _____ 99 + 3 = _____	4 + 8 = _____ 14 + 8 = _____ 44 + 8 = _____ 64 + 8 = _____
9 + 8 = _____ 19 + 8 = _____ 49 + 8 = _____ 79 + 8 = _____	5 + 8 = _____ 15 + 8 = _____ 65 + 8 = _____ 85 + 8 = _____

Subtracting Numbers and Ones from 2-Digit Numbers, Crossing 10

7 - 4 = _____	8 – 1 = _____
17 – 4 = _____	18 – 1 = _____
27 – 4 = _____	28 – 1 = _____
37 – 4 = _____	38 – 1 = _____
8 – 3 = _____	9 - 2 = _____
18 – 3 = _____	19 – 2 = _____
48 – 3 = _____	49 – 2 = _____
58 – 3 = _____	69 – 2 = _____
12 – 5 = _____	18 – 5 = _____
22 – 5 = _____	28 – 5 = _____
32 – 5 = _____	38 – 5 = _____
72 – 5 = _____	98 – 5 = _____
20 – 5 = _____	13 – 7 = _____
40 – 5 = _____	23 – 7 = _____
70 – 5 = _____	43 – 7 = _____
80 - 5 = _____	73 – 7 = _____
16 – 3 = _____	12 – 3 = _____
26 – 3 = _____	22 – 3 = _____
56 – 3 = _____	72 – 3 = _____
76 – 3 = _____	82 – 3 = _____

Subtracting Numbers and Ones from 2-Digit Numbers, Crossing 10

15 - 6 = _____ 25 – 6 = _____ 45 – 6 = _____ 95 – 6 = _____	21 – 4 = _____ 31 – 4 = _____ 41 – 4 = _____ 61 – 4 = _____
11 – 7 = _____ 21 – 7 = _____ 51 – 7 = _____ 91 – 7 = _____	12 - 5 = _____ 22 – 5 = _____ 62 – 5 = _____ 82 – 5 = _____
12 – 6 = _____ 22 – 6 = _____ 42 – 6 = _____ 62 – 6 = _____	18 – 9 = _____ 28 – 9 = _____ 38 – 9 = _____ 78 – 9 = _____
20 – 7 = _____ 30 – 7 = _____ 40 – 7 = _____ 80 - 7 = _____	13 – 8 = _____ 23 – 8 = _____ 33 – 8 = _____ 53 – 8 = _____
16 – 9 = _____ 26 – 9 = _____ 46 – 9 = _____ 86 – 9 = _____	12 – 7 = _____ 32 – 7 = _____ 52 – 7 = _____ 72 – 7 = _____

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

10. _____ + 60 = 90
    _____ + 60 = 93
    _____ + 60 = 96
    _____ + 60 = 99

Adding 2-Digit Numbers and Tens, Not Crossing 100

1) 30 + 54 = ____

2) 20 + 78 = ____

3) 53 + 40 = ____

4) 30 + 45 = ____

5) 16 + 40 = ____

6) 23 + 30 = ____

7) 12 + 70 = ____

8) 55 + 20 = ____

9) 13 + 10 = ____

10) 56 + 10 = ____

11) 10 + 18 = ____

12) 80 + 18 = ____

13) 50 + 32 = ____

14) 90 + 5 = ____

15) 70 + 15 = ____

16) 16 + 20 = ____

17) 27 + 50 = ____

18) 35 + 30 = ____

19) 24 + 10 = ____

20) 12 + 60 = ____

21) 14 + 70 = ____

22) 24 + 20 = ____

23) 40 + 24 = ____

24) 42 + 30 = ____

Subtracting Tens from 2-Digit Numbers, Not Crossing 100

20 – 10 = _____ 30 – 10 = _____ 60 – 10 = _____ 70 – 10 = _____	21 – 20 = _____ 41 – 20 = _____ 51 – 20 = _____ 71 – 20 = _____
37 – 10 = _____ 57 – 10 = _____ 87 – 10 = _____ 97 – 10 = _____	39 - 30 = _____ 59 - 30 = _____ 79 - 30 = _____ 89 - 30 = _____
43 – 40 = _____ 53 – 40 = _____ 73 – 40 = _____ 93 – 40 = _____	62 – 60 = _____ 72 – 60 = _____ 82 – 60 = _____ 92 – 60 = _____
25 – 20 = _____ 35 – 20 = _____ 45 – 20 = _____ 85 – 20 = _____	59 – 50 = _____ 69 – 50 = _____ 79 – 50 = _____ 99 – 50 = _____
_____ – 10 = 7 _____ – 10 = 27 _____ – 10 = 37 _____ – 10 = 77	_____ – 40 = 11 _____ – 40 = 21 _____ – 40 = 31 _____ – 40 = 51

Subtracting Tens and Ones from 2-Digit Numbers, Not Crossing 100

1) 50 - 25 = _____

2) 80 - 42 = _____

3) 70 - 36 = _____

4) 94 - 50 = _____

5) 60 - 31 = _____

6) 40 - 31 = _____

7) 59 - 40 = _____

8) 90 - 81 = _____

9) 50 - 27 = _____

10) 85 - 60 = _____

11) 72 - 50 = _____

12) 46 - 20 = _____

13) 60 - 28 = _____

14) 91 - 20 = _____

15) 40 - 19 = _____

16) 59 - 2 = _____

17) 80 - 19 = _____

18) 59 - 50 = _____

19) 45 - 40 = _____

20) 55 - 30 = _____

21) 90 - 72 = _____

22) 62 - 20 = _____

23) 77 - 30 = _____

24) 88 - 40 = _____

Subtracting Tens and Ones from 2-Digit Numbers, Not Crossing 100

1) 65
- 56

2) 74
- 46

3) 84
- 57

4) 41
- 32

5) 65
- 36

6) 82
- 17

7) 92
- 63

8) 75
- 38

9) 75
- 38

10) 61
- 54

11) 43
- 29

12) 56
- 37

13) 85
- 39

14) 38
- 27

15) 42
- 26

16) 65
- 48

17) 58
- 49

18) 87
- 35

19) 67
- 49

20) 88
- 34

21) 64
- 38

Subtracting Tens and Ones from 3-Digit Numbers, Not Crossing 100

1) 100 - 40 =

2) 108 - 64 =

3) 112 - 60 =

4) 116 - 82 =

5) 130 - 56 =

6) 101 - 70 =

7) 170 - 71 =

8) 165 - 80 =

9) 128 - 70 =

10) 149 - 70 =

11) 130 - 68 =

12) 102 - 80 =

13) 125 - 90 =

14) 130 - 69 =

15) 138 - 70 =

16) 105 - 70 =

17) 109 - 50 =

18) 140 - 99 =

19) 132 - 30 =

20) 119 - 54 =

21) 154 - 30 =

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.

4 + 6 + 3 = ☐	5 + 5 + 6 = ☐	7 + 3 + 4 = ☐
8 + 2 + 9 = ☐	1 + 9 + 7 = ☐	7 + 2 + 3 = ☐
6 + 3 + 4 = ☐	3 + 8 + 7 = ☐	5 + 3 + 5 = ☐
2 + 9 + 8 = ☐	5 + 8 + 5 = ☐	5 + 7 + 3 = ☐
4 + 8 + 2 = ☐	9 + 5 + 1 = ☐	8 + 2 + 7 = ☐
7 + 7 + 3 = ☐	4 + 8 + 2 = ☐	5 + 5 + 5 = ☐
3 + 3 + 7 = ☐	8 + 8 + 2 = ☐	6 + 4 + 6 = ☐
5 + 2 + 5 = ☐	1 + 1 + 9 = ☐	7 + 8 + 3 = ☐
5 + 7 + 5 = ☐	6 + 4 + 9 = ☐	7 + 2 + 3 = ☐
6 + 3 + 7 = ☐	7 + 6 + 4 = ☐	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.

1. Which 3 numbers add to 15? 4 5 7 6 1 ____ +____ + ____ = 15	8. Which 3 numbers add to 20? 6 5 9 2 6 ____ +____ + ____ = 20	15. Which 3 numbers add to 23? 4 6 8 5 9 ____ +____ + ____ = 23
2. Which 3 numbers add to 18? 9 1 4 5 8 ____ +____ + ____ = 18	9. Which 3 numbers add to 7? 4 6 2 3 1 ____ +____ + ____ = 7	16. Which 3 numbers add to 8? 2 3 5 5 1 ____ +____ + ____ = 8
3. Which 3 numbers add to 16? 3 7 8 1 2 ____ +____ + ____ = 16	10. Which 3 numbers add to 13? 3 5 7 9 5 ____ +____ + ____ = 13	17. Which 3 numbers add to 19? 4 6 8 5 9 ____ +____ + ____ = 19
4. Which 3 numbers add to 20? 8 4 5 6 8 ____ +____ + ____ = 20	11. Which 3 numbers add to 11? 3 4 2 5 1 ____ +____ + ____ = 11	18. Which 3 numbers add to 24? 8 7 6 9 5 ____ +____ + ____ = 24
5. Which 3 numbers add to 12? 3 2 4 5 1 ____ +____ + ____ = 12	12. Which 3 numbers add to 22? 7 8 2 9 5 ____ +____ + ____ = 22	19. Which 3 numbers add to 15? 4 2 6 3 5 ____ +____ + ____ = 15
6. Which 3 numbers add to 10? 2 3 4 1 3 ____ +____ + ____ = 10	13. Which 3 numbers add to 17? 6 5 8 2 4 ____ +____ + ____ = 17	20. Which 3 numbers add to 20? 6 7 3 4 9 ____ +____ + ____ = 20
7. Which 3 numbers add to 14? 3 5 7 8 4 ____ +____ + ____ = 14	14. Which 3 numbers add to 9? 4 3 5 4 1 ____ +____ + ____ = 9	21. Which 3 numbers add to 12? 3 8 1 2 5 ____ +____ + ____ = 12

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

Example:

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

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

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

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. $23 + 20 = 43$

   $20 + \square = \square$

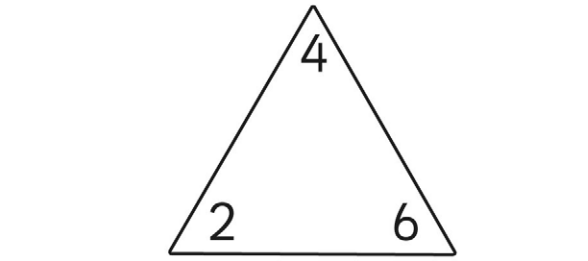
10. $27 + 24 = 51$

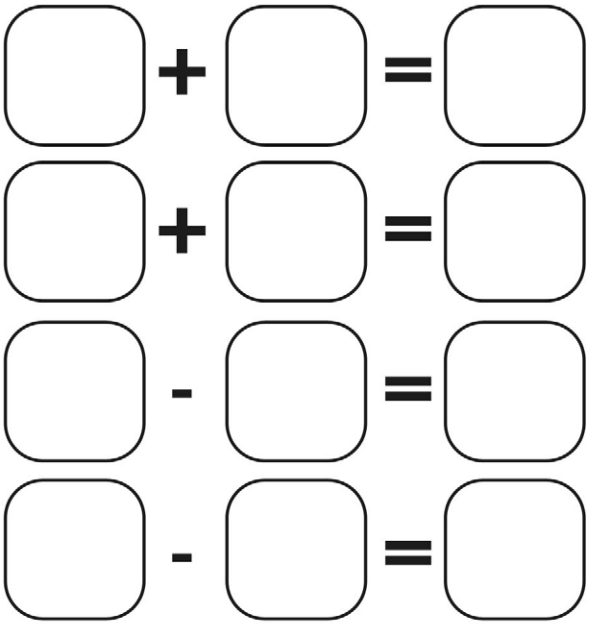
    $24 + \square = \square$

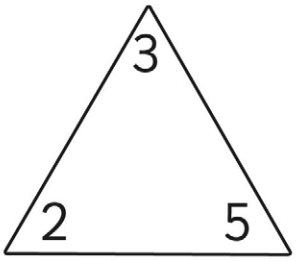
	Correct?
1. 7 – 4 = 3	
4 – 7 = 3	
2. 8 – 13 = 5	
13 – 8 = 5	
3. 10 – 17 = 7	
17 – 10 = 7	
4. 1 – 99 = 98	
99 – 1 = 98	
5. 21 – 18 = 3	
18 – 21 = 3	

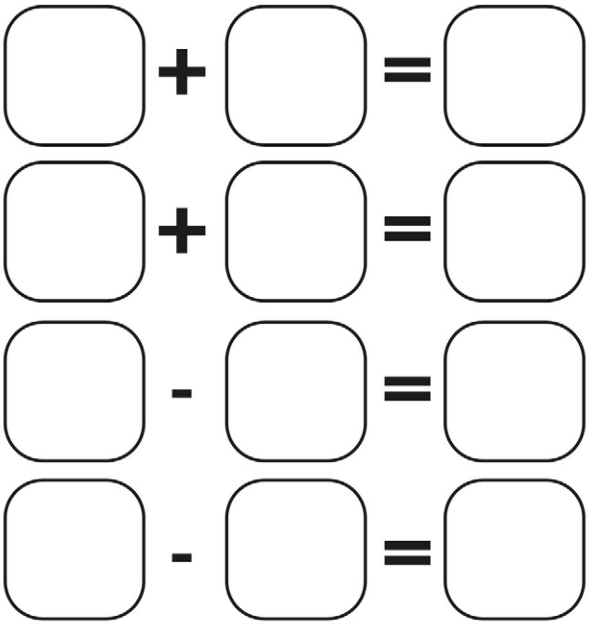
	Correct?
6. 12 – 5 = 7	
5 – 12 = 7	
7. 30 – 18 = 12	
18 – 30 = 12	
8. 30 – 40 = 10	
40 – 30 = 10	
9. 8 – 4 – 2 = 2	
4 – 8 – 2 = 2	
10. 43 – 17 = 26	
17 – 43 = 26	

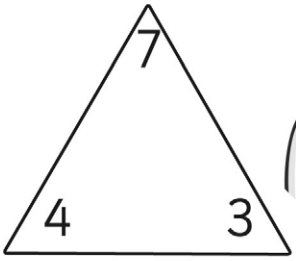
Number Family

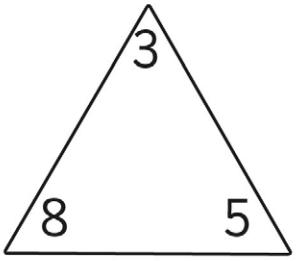


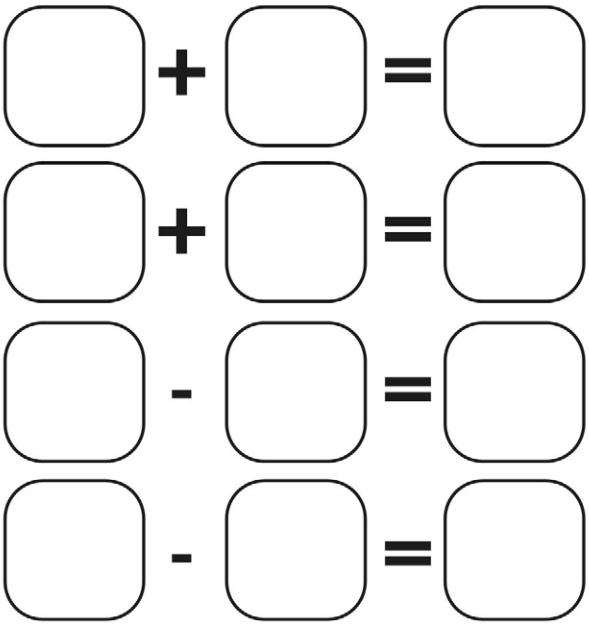


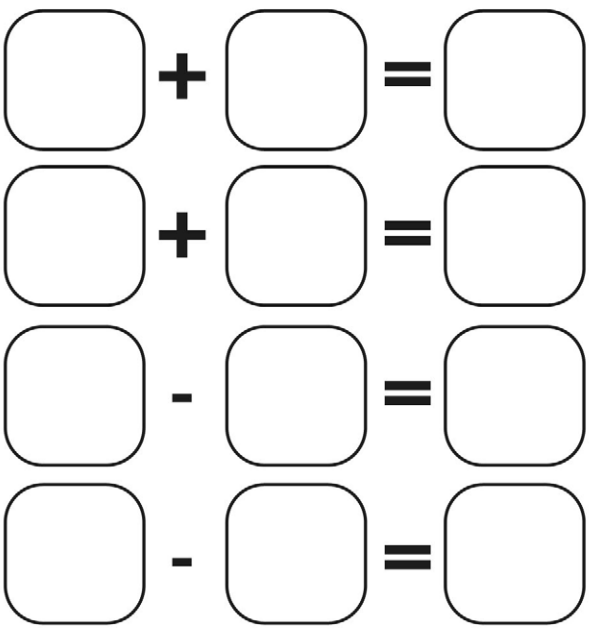




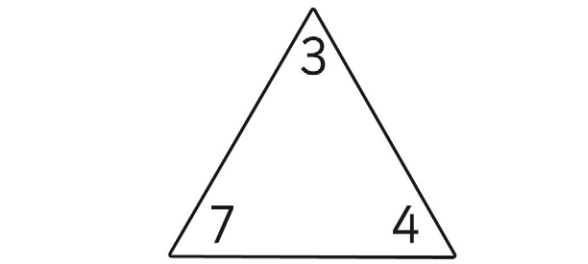


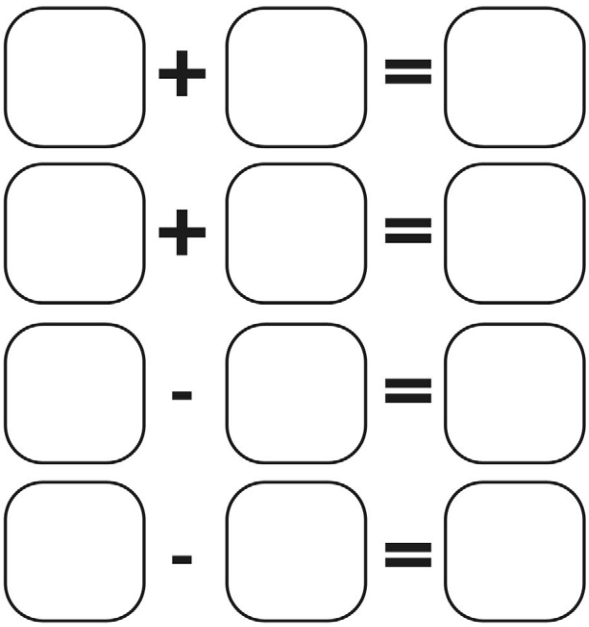


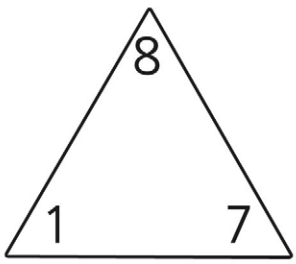


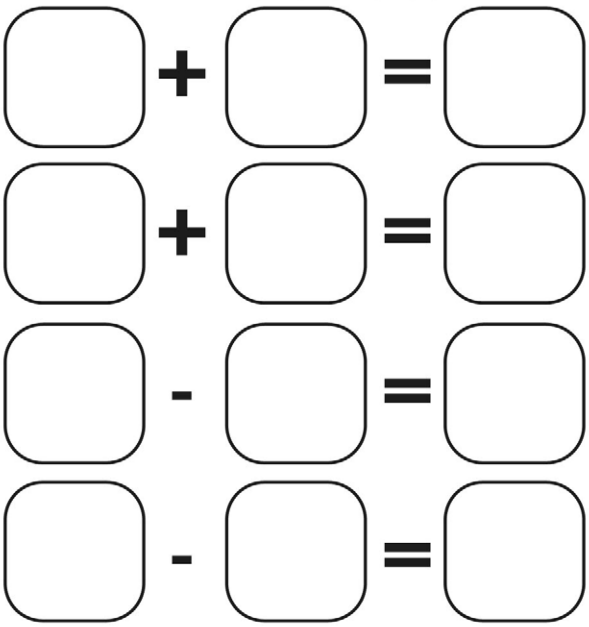


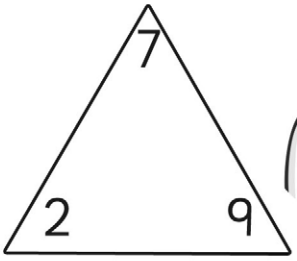
Number Family

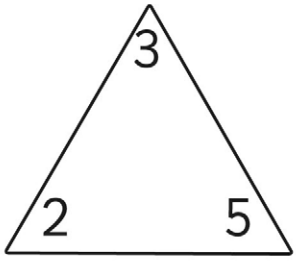


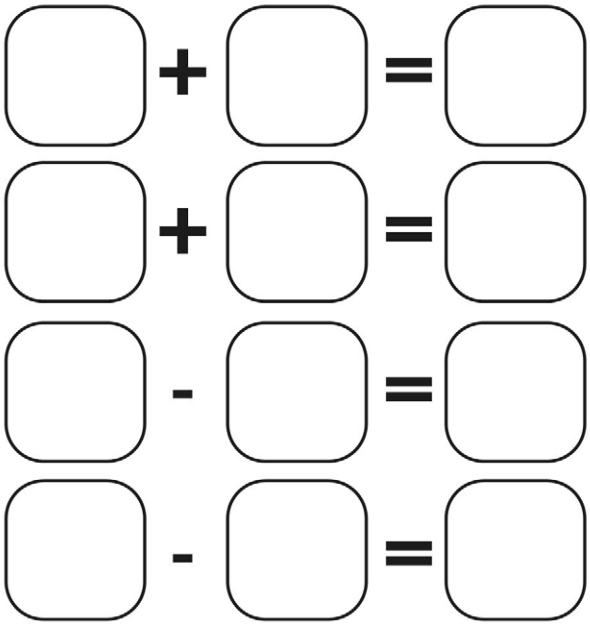


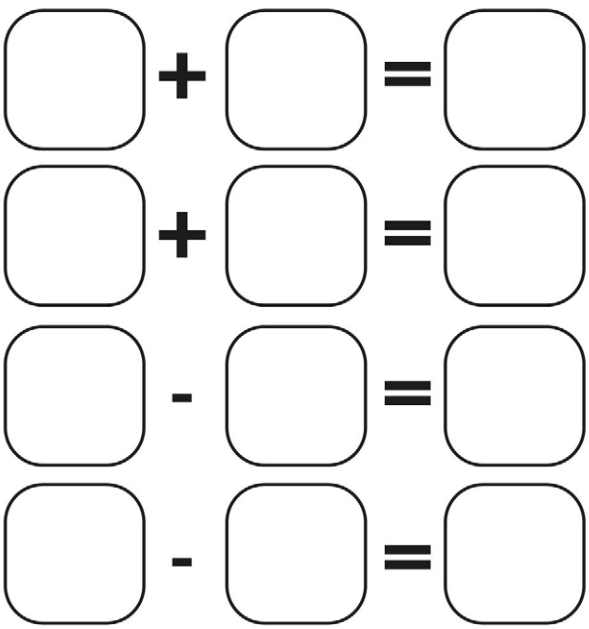




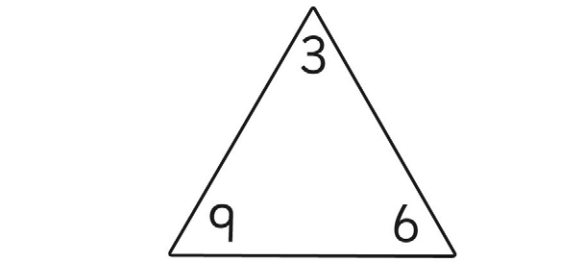


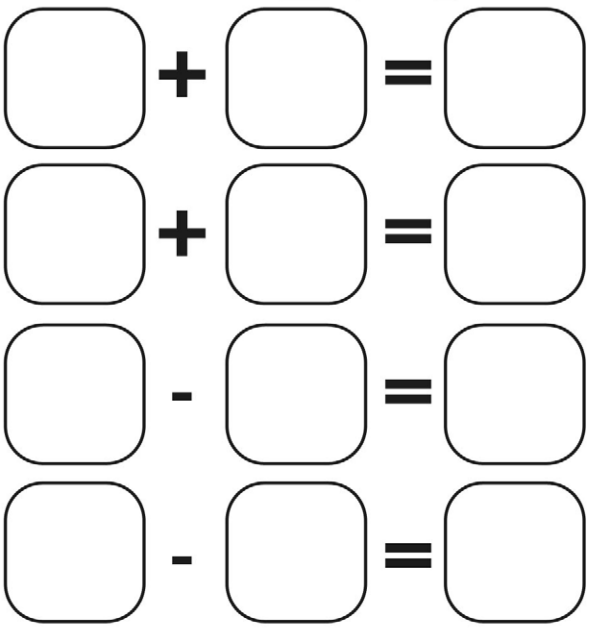


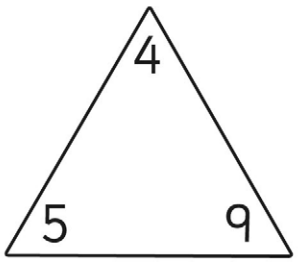


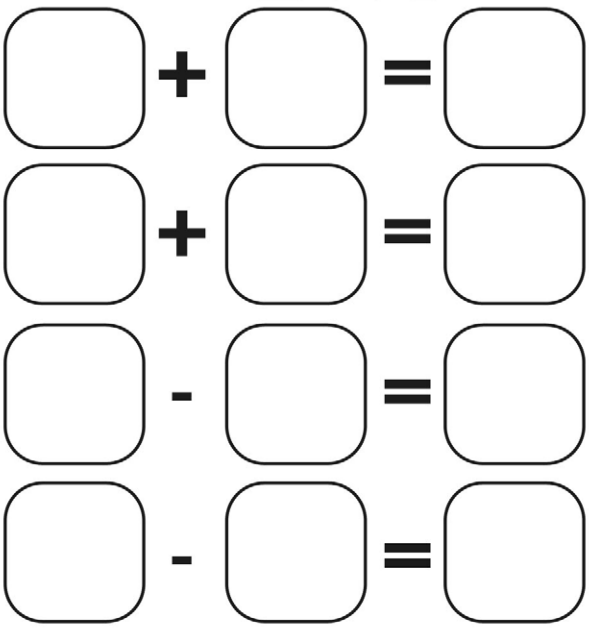


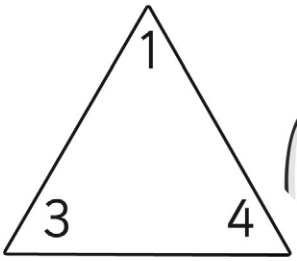
Number Family

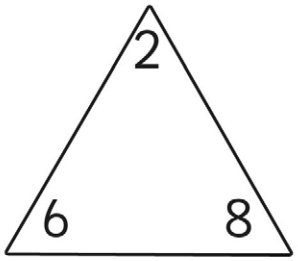


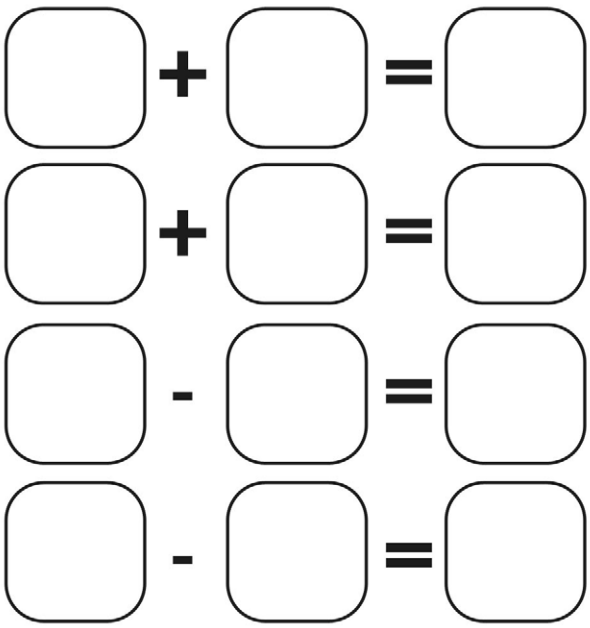


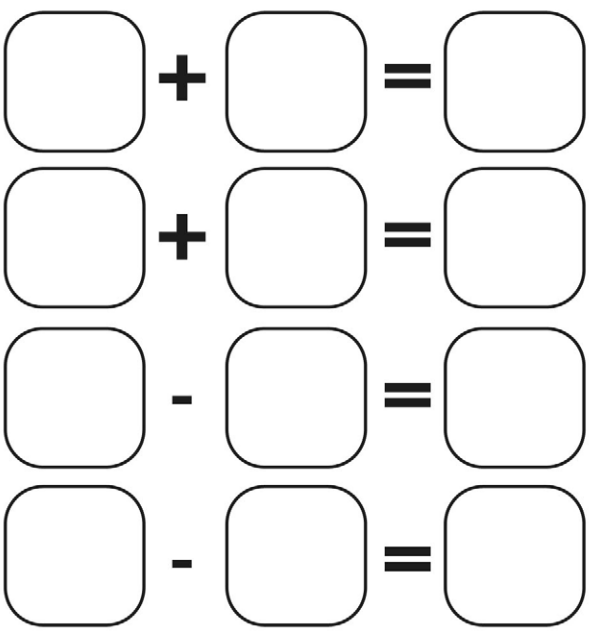




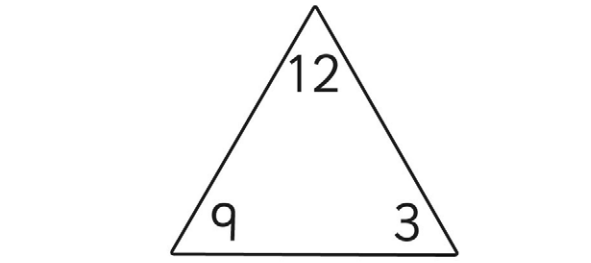


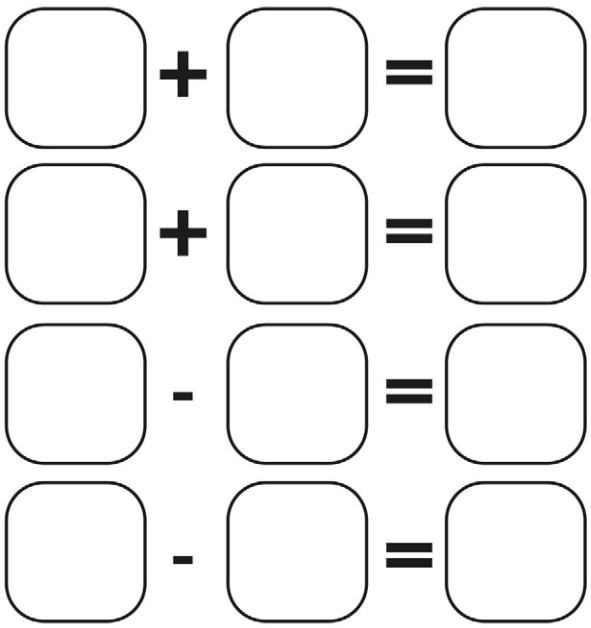


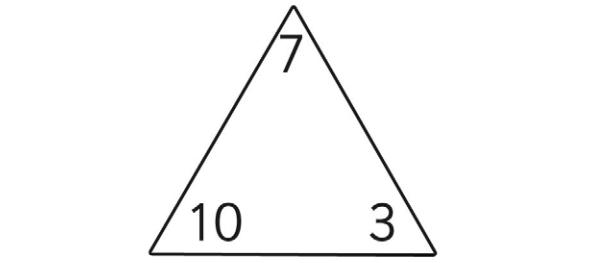


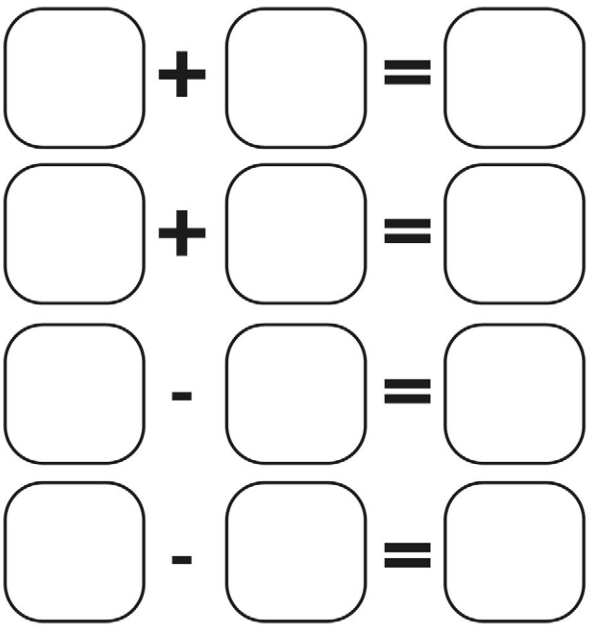


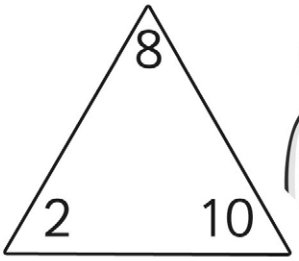
Number Family

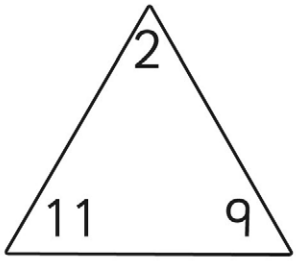


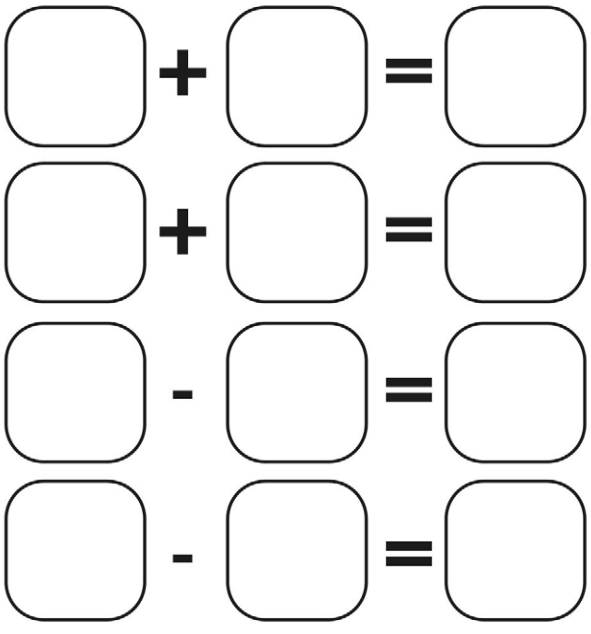


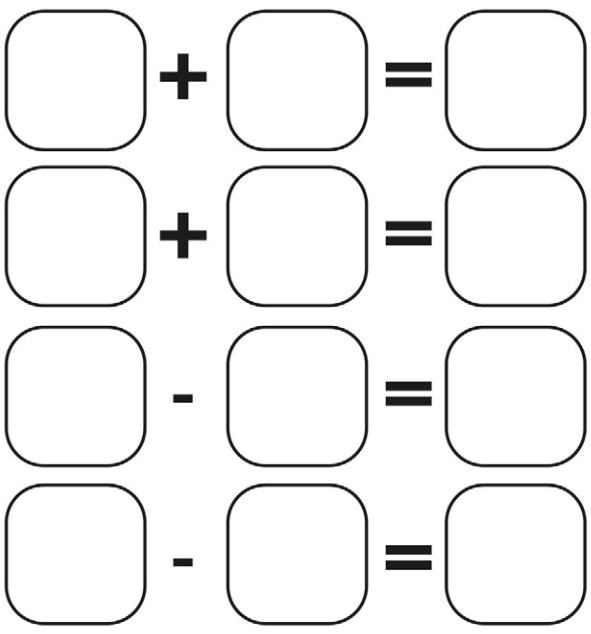




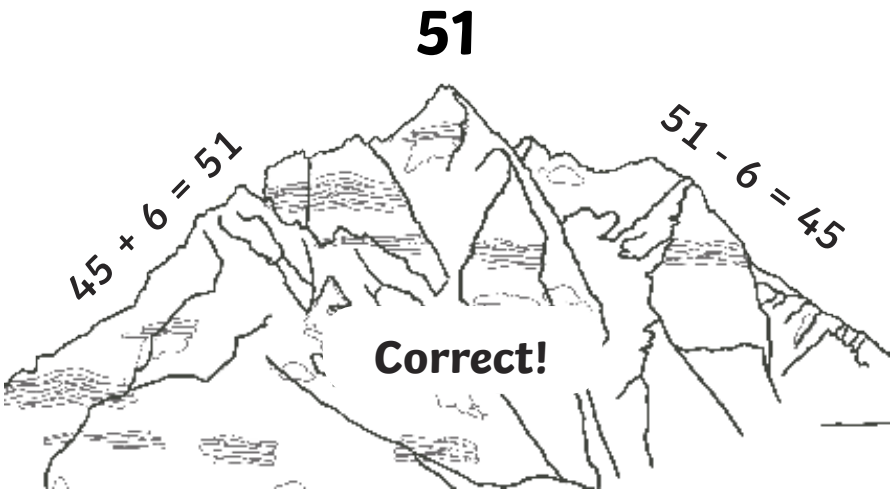






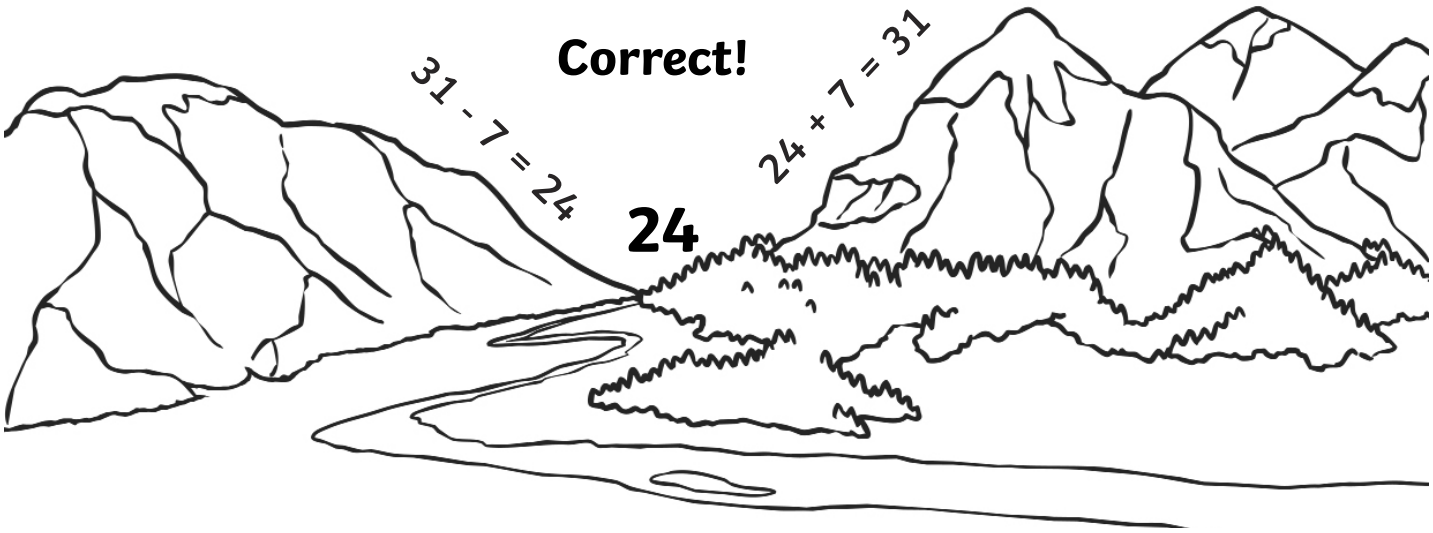


Using Inverse Operations to Check



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?
37 + 7 = 43		26 + 8 = 44	
43 - 7 =		44 - 8 =	
25 + 8 = 33		17 + 9 = 25	
33 - 8 =		25 - 9 =	
47 + 5 = 52		22 + 9 = 30	
52 - 5 =		30 - 22 =	
34 + 6 = 40		19 + 9 = 28	
40 - 34 =		28 - 9 =	
76 + 8 = 85		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?		Correct?
45 – 6 = 39		22 – 4 = 19	
39 + 6 =		19 + 4 =	
37 – 9 = 26		15 – 8 = 10	
26 + 9 =		10 + 8 =	
31 – 3 = 28		34 – 7 = 26	
28 + 3 =		26 + 7 =	
42 – 6 = 38		51 – 6 = 45	
38 + 6 =		45 + 6 =	
62 – 7 = 54		17 – 9 = 8	
54 + 7 =		9 + 8 =	