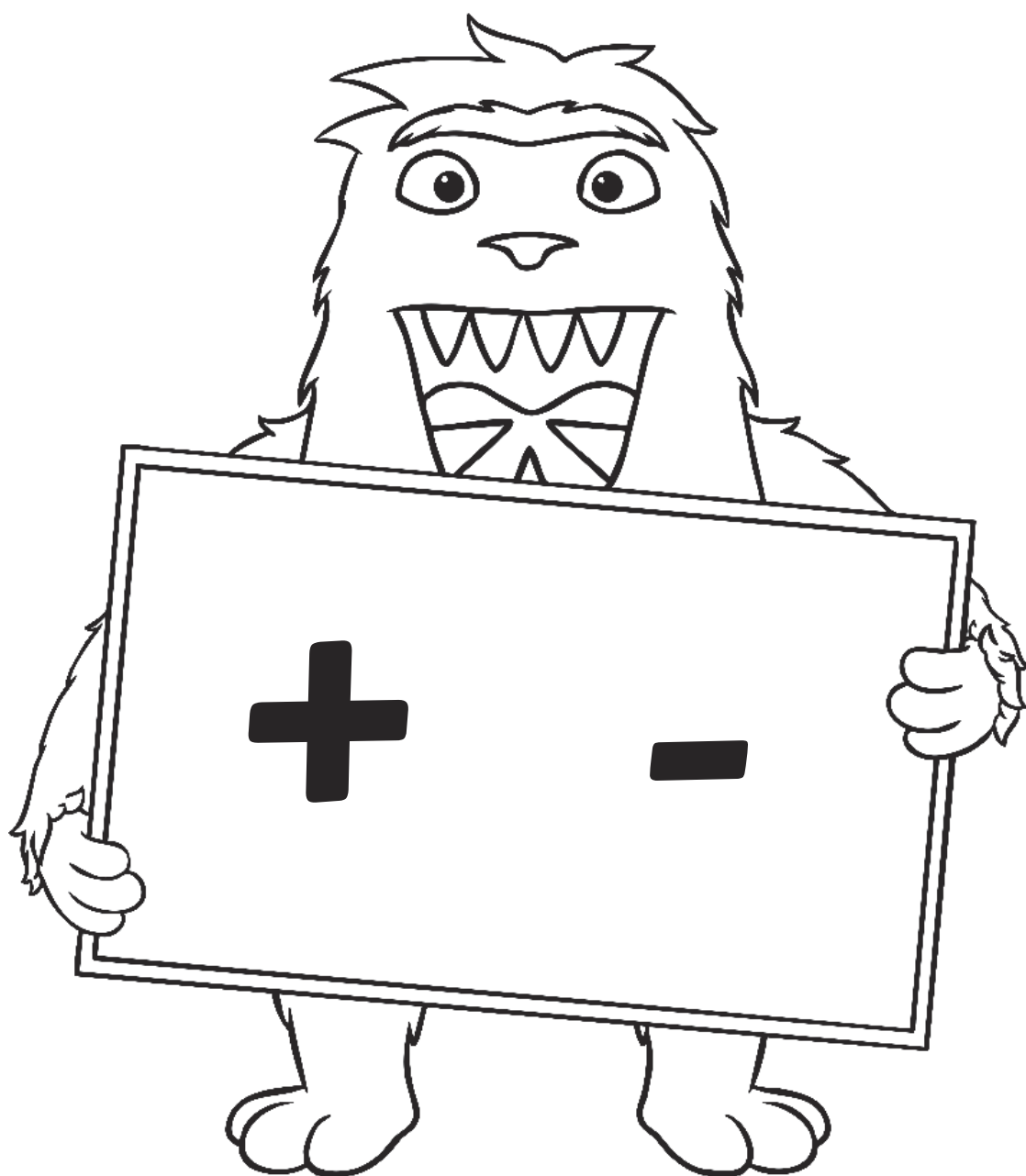


# Year 2 Maths Addition and Subtraction Workbook



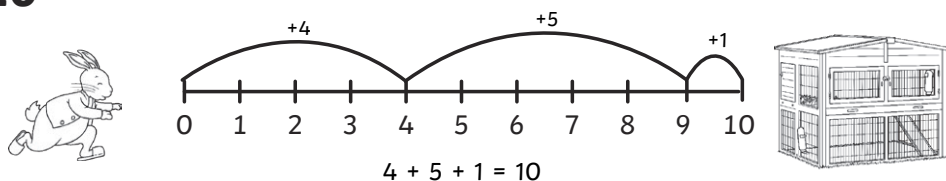
# Home Learning Year 2 Maths Workbook Pack

## Year 2 Programme of Study – Addition and Subtraction

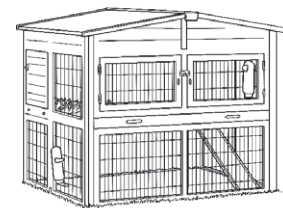
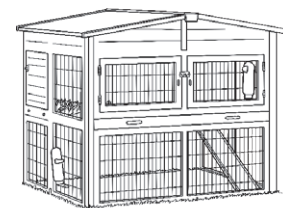
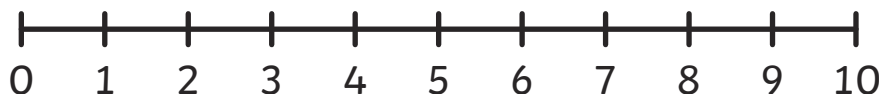
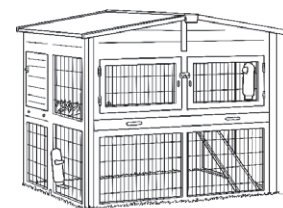
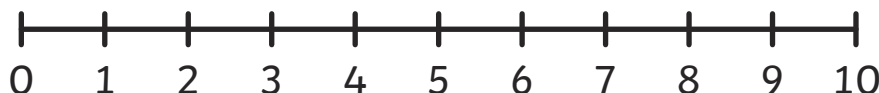
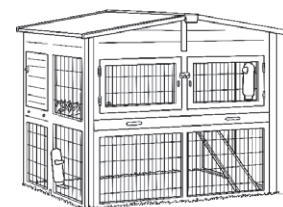
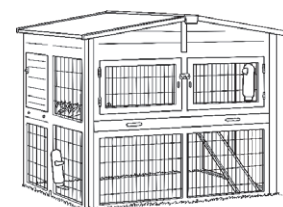
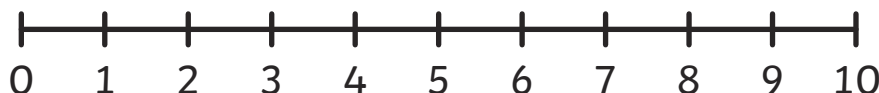
| Statutory Requirements                                                                                                                                         | Worksheet                                                                                                                                                                                                                             | Page Number                   | Notes |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------|
| Solve problems with addition and subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures. | <ul style="list-style-type: none"> <li>Hops to and from 10</li> <li>Addition to 20 on a number line</li> <li>Subtraction within 20 on a number line</li> </ul>                                                                        | 1 – 2<br>3 – 5<br>6 – 8       |       |
| Solve problems with addition and subtraction.<br><br>Applying their increasing knowledge of mental and written methods.                                        | <ul style="list-style-type: none"> <li>Monsters colour by number addition and subtraction up to 20</li> </ul>                                                                                                                         | 9                             |       |
| Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.                                                      | <ul style="list-style-type: none"> <li>Addition and Subtraction facts to 20</li> <li>Deriving Facts to 100</li> </ul>                                                                                                                 | 10<br>11                      |       |
| Add and subtract numbers using concrete objects, pictorial representations, and mentally, including:                                                           |                                                                                                                                                                                                                                       |                               |       |
| A two-digit number and ones.                                                                                                                                   | <ul style="list-style-type: none"> <li>Adding/subtracting 2-digit numbers and ones crossing 10</li> </ul>                                                                                                                             | 12 – 15                       |       |
| A two-digit number and tens.                                                                                                                                   | <ul style="list-style-type: none"> <li>Adding/subtracting 2-digit numbers and tens not crossing 100</li> </ul>                                                                                                                        | 16 – 18                       |       |
| Two two-digit numbers.                                                                                                                                         | <ul style="list-style-type: none"> <li>Adding two 2-digit numbers beyond 100</li> <li>Subtracting tens and ones from 2-digit numbers not crossing 100</li> <li>Subtracting tens and ones from 2-digit numbers crossing 100</li> </ul> | 19 – 21<br>22 – 23<br>24 – 25 |       |
| Adding three one-digit numbers.                                                                                                                                | <ul style="list-style-type: none"> <li>Adding three one-digit numbers using number facts to 10</li> <li>Adding three one-digit numbers – Which 3 numbers?</li> </ul>                                                                  | 26<br>27                      |       |
| Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot.                                    | <ul style="list-style-type: none"> <li>Addition can be done in any order – subtraction can't!</li> </ul>                                                                                                                              | 28 – 29                       |       |
| Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.              | <ul style="list-style-type: none"> <li>Number family worksheets</li> <li>Using Inverse Operations to check – Two Digits Plus One Digit</li> </ul>                                                                                     | 30 – 33<br>34 – 35            |       |

# 3 Hops to 10

Example



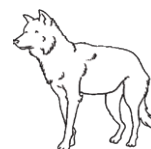
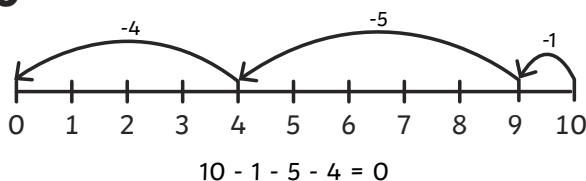
Peter Rabbit says he can get back to his run in 3 hops! Find different ways that Peter can do this and draw them on the number lines. Can you write number sentences to match his hops?



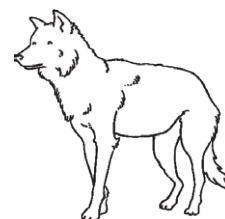
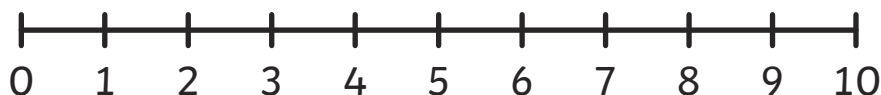
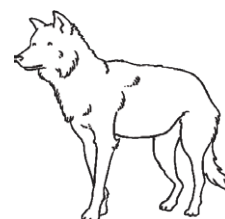
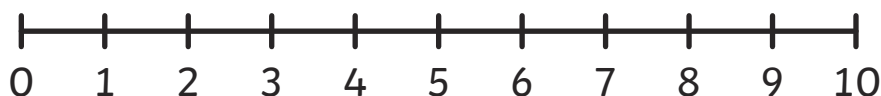
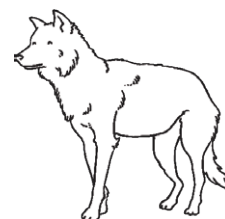
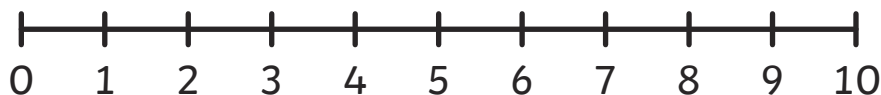
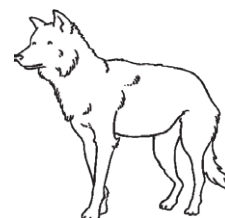
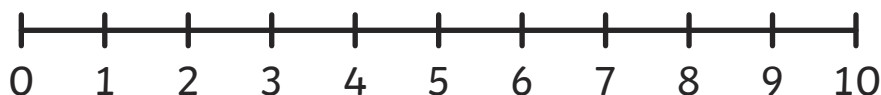
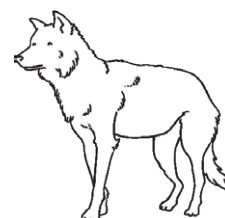
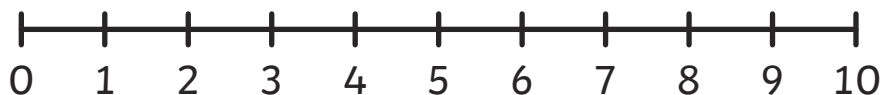
How many other ways can you find? Can you find them all?

# 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?



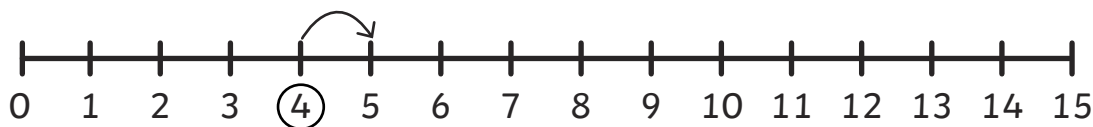
How many other ways can you find? Can you find them all?

## Addition to 20 on a Number Line

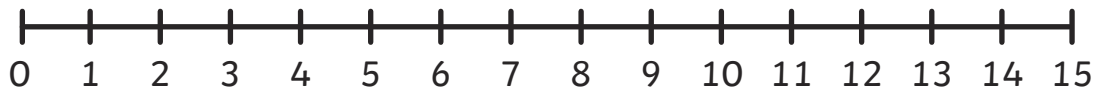
Example

$4 + 1 =$

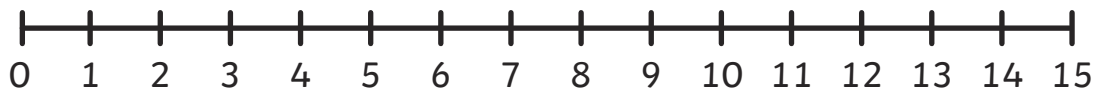
5



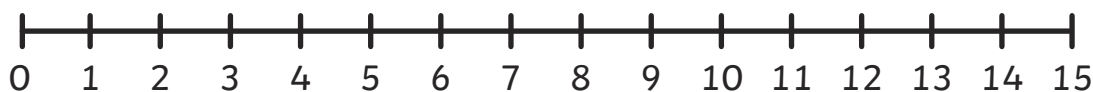
$5 + 3 =$



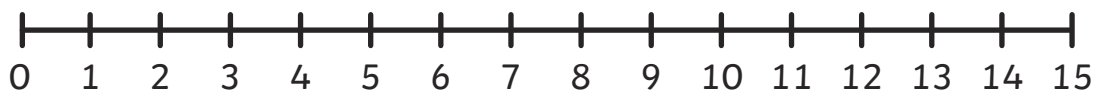
$8 + 3 =$



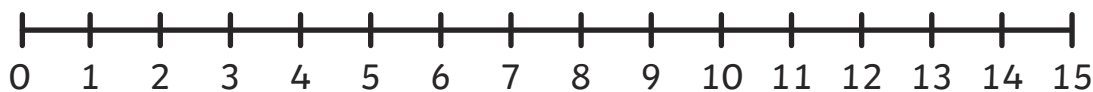
$6 + 6 =$



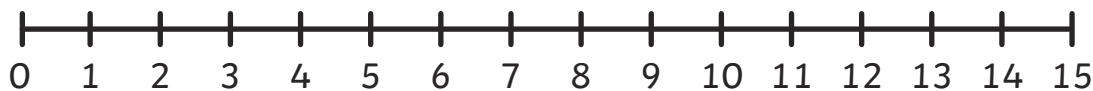
$4 + 5 =$



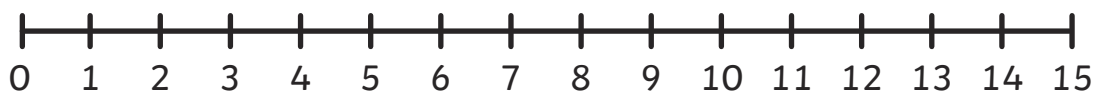
$4 + 7 =$



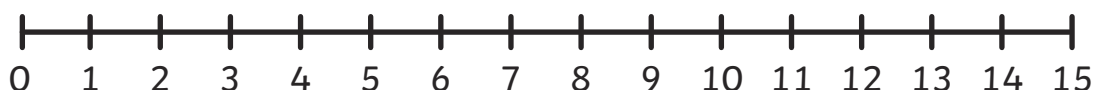
$7 + 6 =$



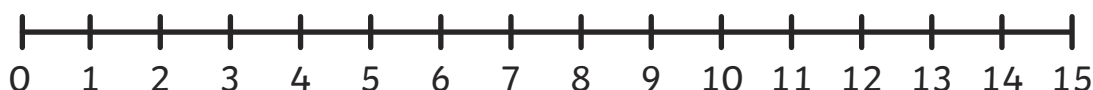
$8 + 4 =$



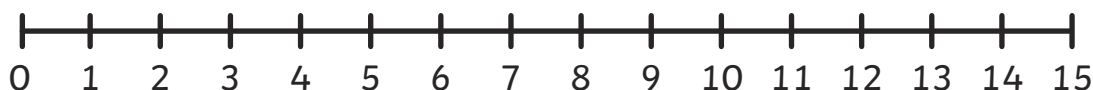
$9 + 6 =$



$3 + 9 =$



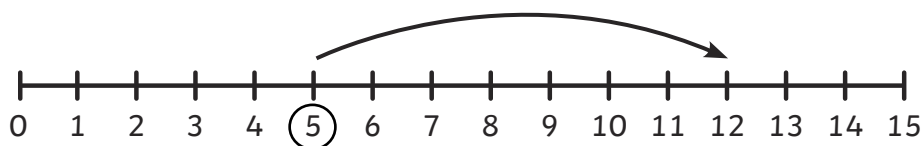
$2 + 10 =$



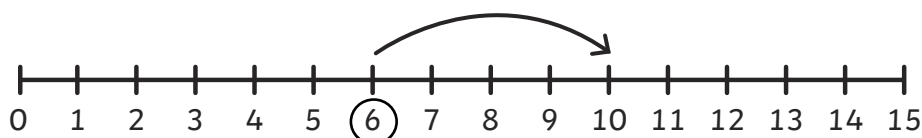
## Addition to 20 on a Number Line - Sheet 2

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

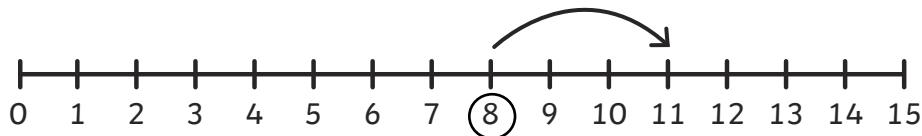
1.  $5 + 7 = 12$



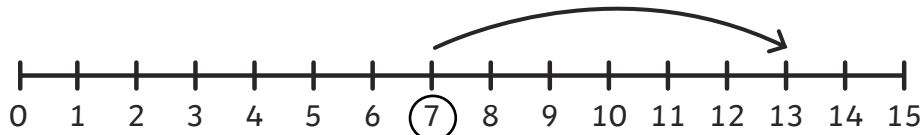
2.  $\square + \square = \square$



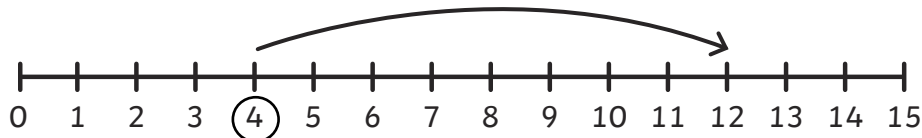
3.  $\square + \square = \square$



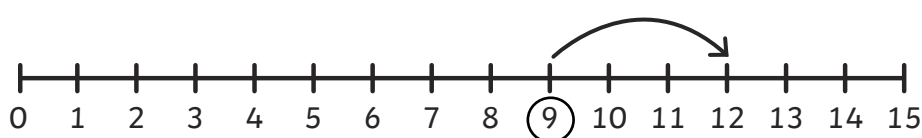
4.  $\square + \square = \square$



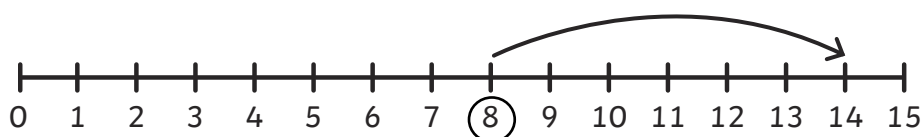
5.  $\square + \square = \square$



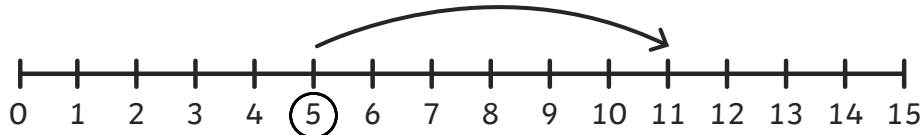
6.  $\square + \square = \square$



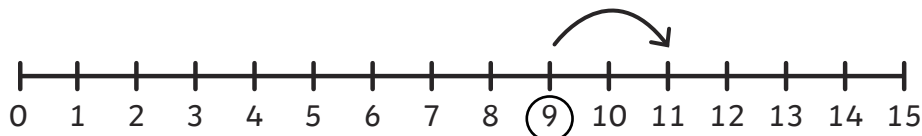
7.  $\square + \square = \square$



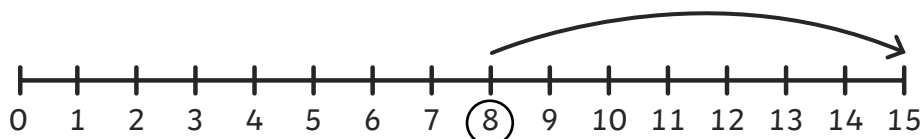
8.  $\square + \square = \square$



9.  $\square + \square = \square$



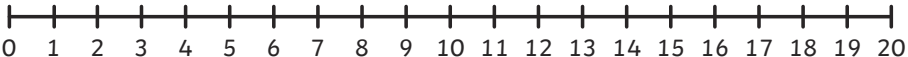
10.  $\square + \square = \square$



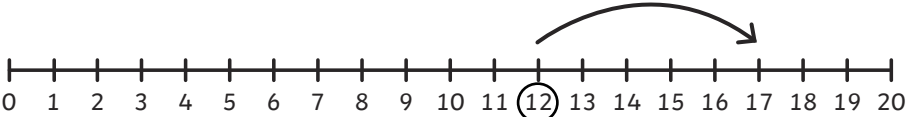
## Addition to 20 on a Number Line - Sheet 3

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!

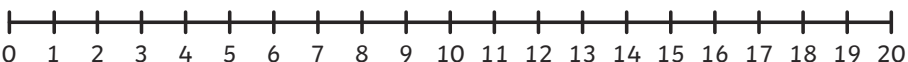
1.  $11 + 4 = \square$



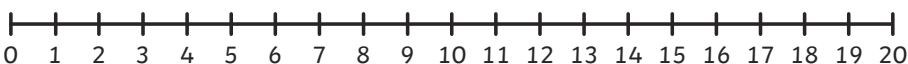
2.  $\square + \square = \square$



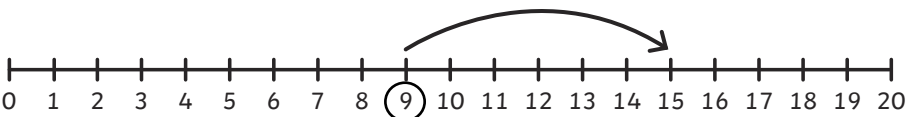
3.  $8 + 9 = \square$



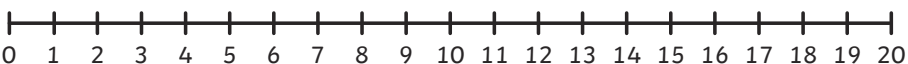
4.  $6 + \square = 9$



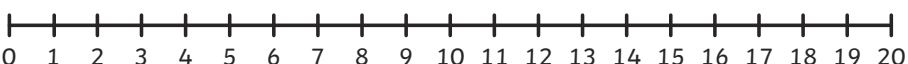
5.  $\square + \square = \square$



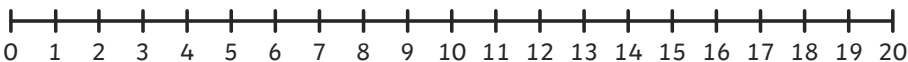
6.  $\square + 7 = 11$



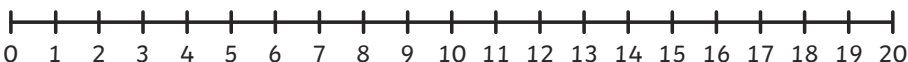
7.  $9 + 9 = \square$



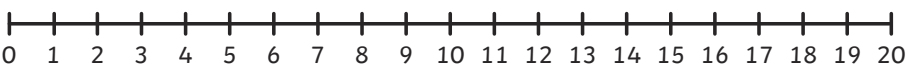
8.  $12 + 3 = \square$



9.  $7 + 9 = \square$

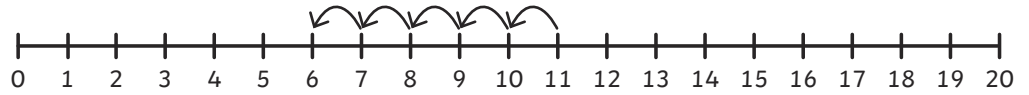


10.  $13 + 5 = \square$

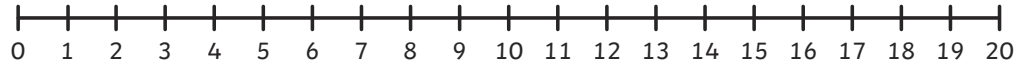


## Subtraction within 20 on a Number Line

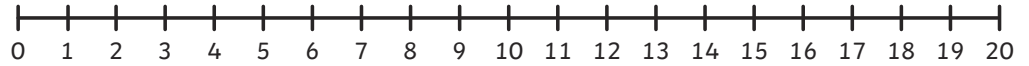
$11 - 5 =$



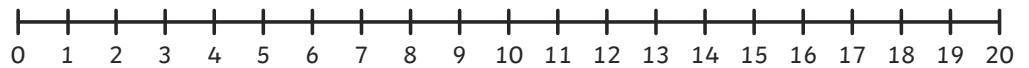
$10 - 7 =$



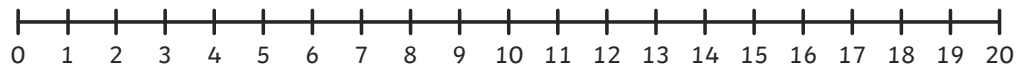
$8 - 4 =$



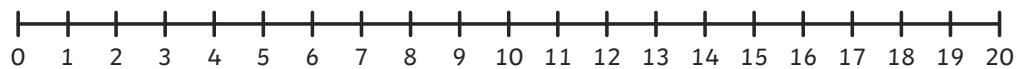
$9 - 5 =$



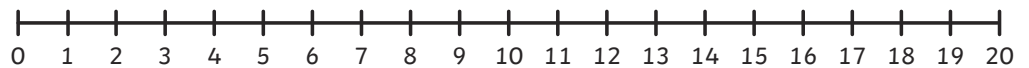
$13 - 2 =$



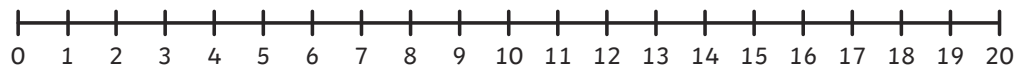
$7 - 4 =$



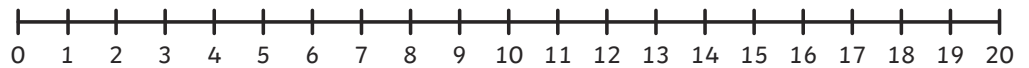
$19 - 8 =$



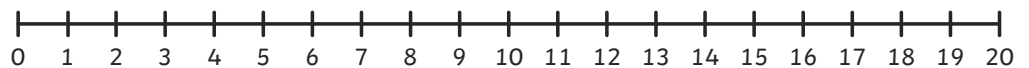
$20 - 1 =$



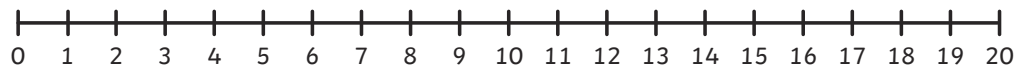
$14 - 3 =$



$16 - 3 =$



$12 - 6 =$

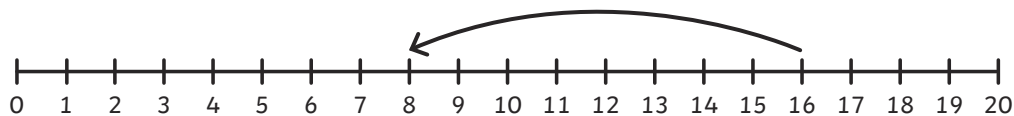




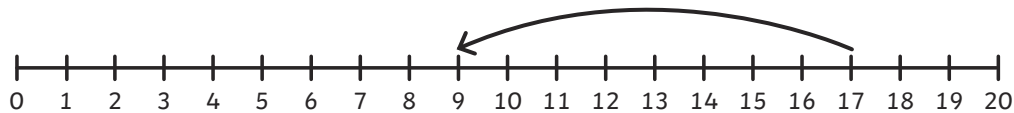
## Subtraction within 20 on a Number Line - Sheet 2

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!

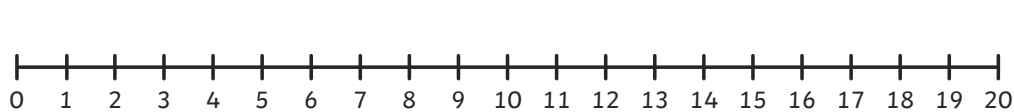
$$16 - 8 = 8$$



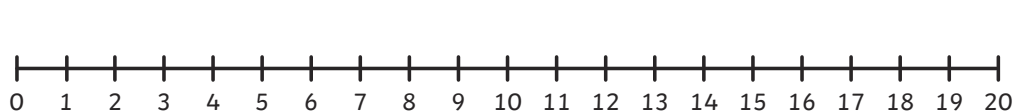
$$\square - \square = \square$$



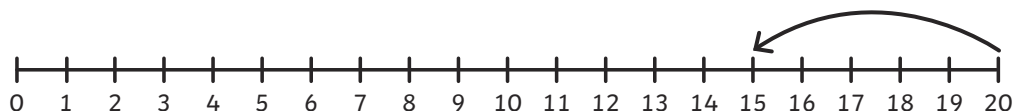
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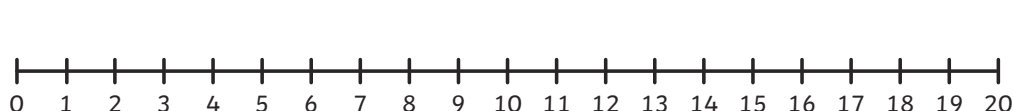
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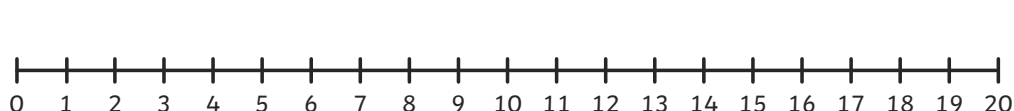
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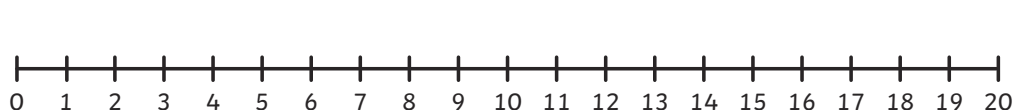
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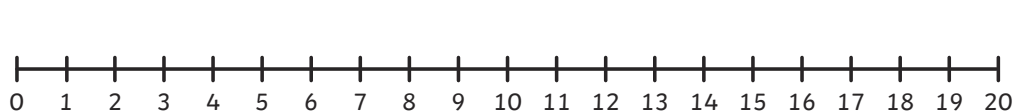
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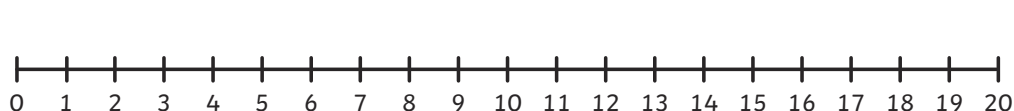
$$\square - \square = \square$$



$$\square - \square = \square$$

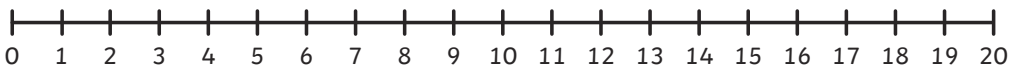


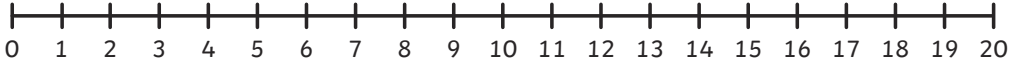
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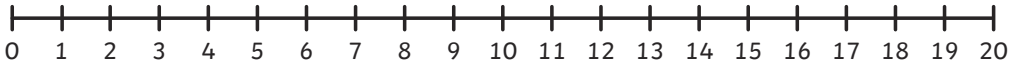


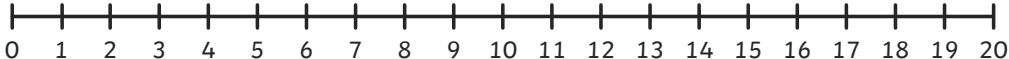
## Subtraction within 20 on a Number Line - Sheet 3

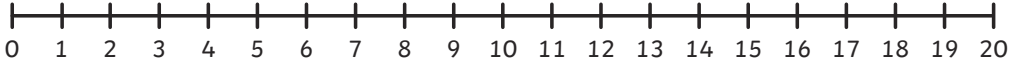
Practise what you have learnt so far on a number line to 20 and progress to see if you can draw your own number line!

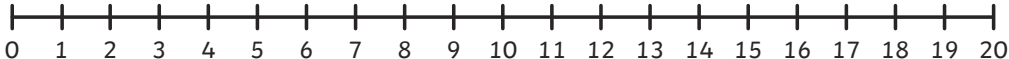
$8 - 3 =$   

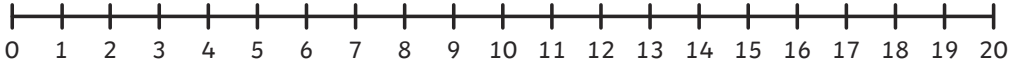
$7 - 5 =$   

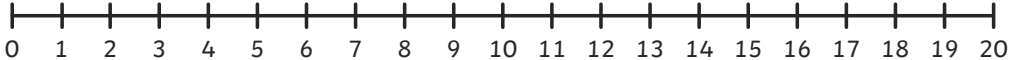
$9 - 8 =$   

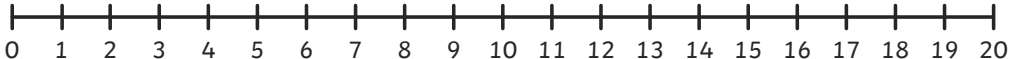
$8 - 6 =$   

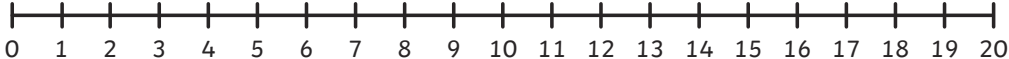
$10 - 4 =$   

$11 - 9 =$   

$20 - 15 =$   

$12 - 7 =$   

$14 - 2 =$   

$16 - 1 =$   

## Monsters Colour by Number Addition and Subtraction up to 20

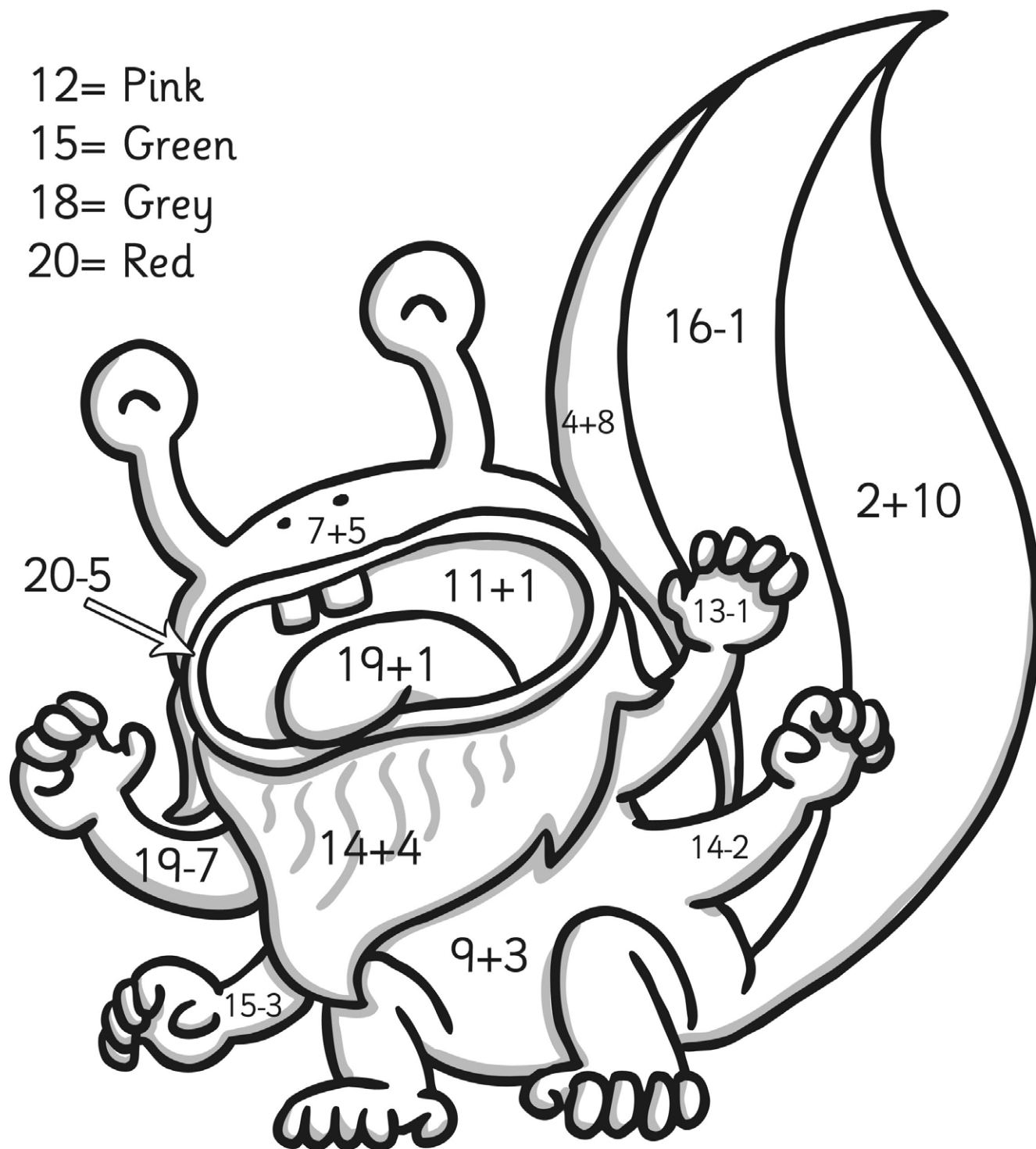
Solve the calculations in the picture to work out what colours they should be!

12= Pink

15= Green

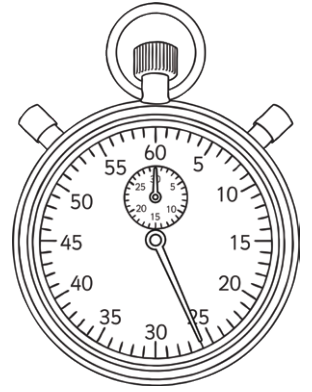
18= Grey

20= Red



## 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.

$7 + 2 = 9$

$7 - 4 =$

$70 + 20 = 90$

$70 - 40 =$

$4 + 6 =$

$3 + 6 =$

$40 + 60 =$

$30 + 60 =$

$5 - 3 =$

$8 - 3 =$

$50 - 30 =$

$80 - 30 =$

$10 - 7 =$

$9 + 1 =$

$100 - 70 =$

$90 + 10 =$

$5 + 4 =$

$3 - 2 =$

$50 + 40 =$

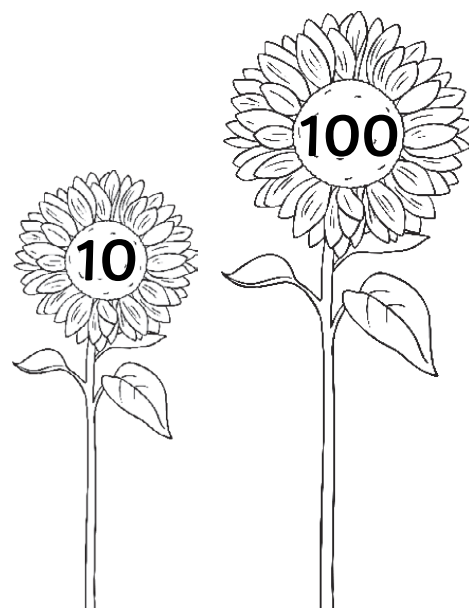
$30 - 20 =$

$9 - 8 =$

$10 - 5 =$

$90 - 80 =$

$100 - 50 =$



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. $5 + 6 =$ _____<br>$15 + 6 =$ _____<br>$45 + 6 =$ _____<br>$65 + 6 =$ _____ | 2. $8 + 3 =$ _____<br>$18 + 3 =$ _____<br>$38 + 3 =$ _____<br>$78 + 3 =$ _____  |
| 3. $6 + 8 =$ _____<br>$16 + 8 =$ _____<br>$46 + 8 =$ _____<br>$96 + 8 =$ _____ | 4. $7 + 5 =$ _____<br>$17 + 5 =$ _____<br>$67 + 5 =$ _____<br>$87 + 5 =$ _____  |
| 5. $5 + 9 =$ _____<br>$15 + 9 =$ _____<br>$55 + 9 =$ _____<br>$85 + 9 =$ _____ | 6. $6 + 7 =$ _____<br>$16 + 7 =$ _____<br>$46 + 7 =$ _____<br>$76 + 7 =$ _____  |
| 7. $9 + 3 =$ _____<br>$19 + 3 =$ _____<br>$59 + 3 =$ _____<br>$99 + 3 =$ _____ | 8. $4 + 9 =$ _____<br>$14 + 9 =$ _____<br>$54 + 9 =$ _____<br>$74 + 9 =$ _____  |
| 9. $7 + 8 =$ _____<br>$17 + 8 =$ _____<br>$57 + 8 =$ _____<br>$97 + 8 =$ _____ | 10. $5 + 8 =$ _____<br>$15 + 8 =$ _____<br>$65 + 8 =$ _____<br>$85 + 8 =$ _____ |

## Adding 2-Digit Numbers and Ones Crossing 10

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

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

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



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

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

## Adding 2-Digit Numbers and Tens, Not Crossing 100

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

## Adding 2-Digit Numbers and Tens, Not Crossing 100

$$\begin{array}{r} 1) \quad 30 \\ + 54 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 20 \\ + 78 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 53 \\ + 40 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 30 \\ + 45 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 5) \quad 16 \\ + 40 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 6) \quad 23 \\ + 30 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 7) \quad 12 \\ + 70 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 8) \quad 55 \\ + 20 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 9) \quad 13 \\ + 10 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 10) \quad 56 \\ + 10 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 11) \quad 10 \\ + 18 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 12) \quad 80 \\ + 18 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 13) \quad 50 \\ + 32 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 14) \quad 90 \\ + 5 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 15) \quad 70 \\ + 15 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 16) \quad 16 \\ + 20 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 17) \quad 27 \\ + 50 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 18) \quad 35 \\ + 30 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 19) \quad 24 \\ + 10 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 20) \quad 12 \\ + 60 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 21) \quad 14 \\ + 70 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 22) \quad 24 \\ + 20 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 23) \quad 40 \\ + 24 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 24) \quad 42 \\ + 30 \\ \hline \\ \hline \end{array}$$

## Subtracting Tens from 2-Digit Numbers, Not Crossing 100

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

## 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

$$\begin{array}{r} 1) \quad 65 \\ - 56 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 74 \\ - 46 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 84 \\ - 57 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 41 \\ - 32 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 5) \quad 65 \\ - 36 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 6) \quad 82 \\ - 17 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 7) \quad 92 \\ - 63 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 8) \quad 75 \\ - 38 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 9) \quad 75 \\ - 38 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 10) \quad 61 \\ - 54 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 11) \quad 43 \\ - 29 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 12) \quad 56 \\ - 37 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 13) \quad 85 \\ - 39 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 14) \quad 38 \\ - 27 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 15) \quad 42 \\ - 26 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 16) \quad 65 \\ - 48 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 17) \quad 58 \\ - 49 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 18) \quad 87 \\ - 35 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 19) \quad 67 \\ - 49 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 20) \quad 88 \\ - 34 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 21) \quad 64 \\ - 38 \\ \hline \\ \hline \end{array}$$

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

|       |      |       |      |       |     |       |      |
|-------|------|-------|------|-------|-----|-------|------|
| 1)    | 100  | 2)    | 108  | 3)    | 112 | 4)    | 116  |
|       | - 40 |       | - 64 |       | 60  |       | - 82 |
| <hr/> |      | <hr/> |      | <hr/> |     | <hr/> |      |

|       |      |       |      |       |      |       |      |
|-------|------|-------|------|-------|------|-------|------|
| 5)    | 130  | 6)    | 101  | 7)    | 170  | 8)    | 165  |
|       | - 56 |       | - 70 |       | - 71 |       | - 80 |
| <hr/> |      | <hr/> |      | <hr/> |      | <hr/> |      |

|       |      |       |      |       |     |       |      |
|-------|------|-------|------|-------|-----|-------|------|
| 9)    | 128  | 10)   | 149  | 11)   | 130 | 12)   | 102  |
|       | - 70 |       | - 70 |       | 68  |       | - 80 |
| <hr/> |      | <hr/> |      | <hr/> |     | <hr/> |      |

|       |      |       |      |       |      |       |      |
|-------|------|-------|------|-------|------|-------|------|
| 13)   | 125  | 14)   | 130  | 15)   | 138  | 16)   | 105  |
|       | - 90 |       | - 69 |       | - 70 |       | - 70 |
| <hr/> |      | <hr/> |      | <hr/> |      | <hr/> |      |

|       |      |       |      |       |      |       |      |
|-------|------|-------|------|-------|------|-------|------|
| 17)   | 109  | 18)   | 140  | 19)   | 132  | 20)   | 119  |
|       | - 50 |       | - 99 |       | - 30 |       | - 54 |
| <hr/> |      | <hr/> |      | <hr/> |      | <hr/> |      |

|       |      |
|-------|------|
| 21)   | 154  |
|       | - 30 |
| <hr/> |      |

## 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.

$4 + 6 + 3 = \boxed{\phantom{00}}$

$5 + 5 + 6 = \boxed{\phantom{00}}$

$7 + 3 + 4 = \boxed{\phantom{00}}$

$8 + 2 + 9 = \boxed{\phantom{00}}$

$1 + 9 + 7 = \boxed{\phantom{00}}$

$7 + 2 + 3 = \boxed{\phantom{00}}$

$6 + 3 + 4 = \boxed{\phantom{00}}$

$3 + 8 + 7 = \boxed{\phantom{00}}$

$5 + 3 + 5 = \boxed{\phantom{00}}$

$2 + 9 + 8 = \boxed{\phantom{00}}$

$5 + 8 + 5 = \boxed{\phantom{00}}$

$5 + 7 + 3 = \boxed{\phantom{00}}$

$4 + 8 + 2 = \boxed{\phantom{00}}$

$9 + 5 + 1 = \boxed{\phantom{00}}$

$8 + 2 + 7 = \boxed{\phantom{00}}$

$7 + 7 + 3 = \boxed{\phantom{00}}$

$4 + 8 + 2 = \boxed{\phantom{00}}$

$5 + 5 + 5 = \boxed{\phantom{00}}$

$3 + 3 + 7 = \boxed{\phantom{00}}$

$8 + 8 + 2 = \boxed{\phantom{00}}$

$6 + 4 + 6 = \boxed{\phantom{00}}$

$5 + 2 + 5 = \boxed{\phantom{00}}$

$1 + 1 + 9 = \boxed{\phantom{00}}$

$7 + 8 + 3 = \boxed{\phantom{00}}$

$5 + 7 + 5 = \boxed{\phantom{00}}$

$6 + 4 + 9 = \boxed{\phantom{00}}$

$7 + 2 + 3 = \boxed{\phantom{00}}$

$6 + 3 + 7 = \boxed{\phantom{00}}$

$7 + 6 + 4 = \boxed{\phantom{00}}$

$9 + 2 + 8 = \boxed{\phantom{00}}$

**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?<br>4 5 7 6 1<br>____ + ____ + ____ = 15 | 8. Which 3 numbers add to 20?<br>6 5 9 2 6<br>____ + ____ + ____ = 20  | 15. Which 3 numbers add to 23?<br>4 6 8 5 9<br>____ + ____ + ____ = 23 |
| 2. Which 3 numbers add to 18?<br>9 1 4 5 8<br>____ + ____ + ____ = 18 | 9. Which 3 numbers add to 7?<br>4 6 2 3 1<br>____ + ____ + ____ = 7    | 16. Which 3 numbers add to 8?<br>2 3 5 5 1<br>____ + ____ + ____ = 8   |
| 3. Which 3 numbers add to 16?<br>3 7 8 1 2<br>____ + ____ + ____ = 16 | 10. Which 3 numbers add to 13?<br>3 5 7 9 5<br>____ + ____ + ____ = 13 | 17. Which 3 numbers add to 19?<br>4 6 8 5 9<br>____ + ____ + ____ = 19 |
| 4. Which 3 numbers add to 20?<br>8 4 5 6 8<br>____ + ____ + ____ = 20 | 11. Which 3 numbers add to 11?<br>3 4 2 5 1<br>____ + ____ + ____ = 11 | 18. Which 3 numbers add to 24?<br>8 7 6 9 5<br>____ + ____ + ____ = 24 |
| 5. Which 3 numbers add to 12?<br>3 2 4 5 1<br>____ + ____ + ____ = 12 | 12. Which 3 numbers add to 22?<br>7 8 2 9 5<br>____ + ____ + ____ = 22 | 19. Which 3 numbers add to 15?<br>4 2 6 3 5<br>____ + ____ + ____ = 15 |
| 6. Which 3 numbers add to 10?<br>2 3 4 1 3<br>____ + ____ + ____ = 10 | 13. Which 3 numbers add to 17?<br>6 5 8 2 4<br>____ + ____ + ____ = 17 | 20. Which 3 numbers add to 20?<br>6 7 3 4 9<br>____ + ____ + ____ = 20 |
| 7. Which 3 numbers add to 14?<br>3 5 7 8 4<br>____ + ____ + ____ = 14 | 14. Which 3 numbers add to 9?<br>4 3 5 4 1<br>____ + ____ + ____ = 9   | 21. Which 3 numbers add to 12?<br>3 8 1 2 5<br>____ + ____ + ____ = 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.  $27 + 24 = 51$

$24 + \square = \square$



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.  $8 - 4 - 2 = 2$

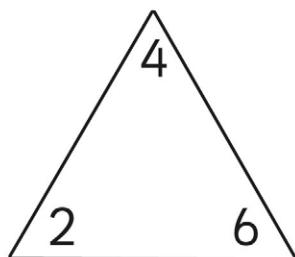
$4 - 8 - 2 = 2$

10.  $43 - 17 = 26$

$17 - 43 = 26$

**Correct?**

# Number Family

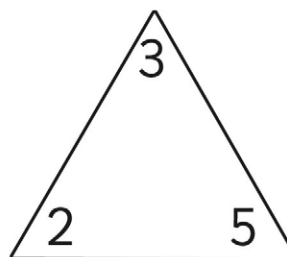


$$\square + \square = \square$$

$$\square + \square = \square$$

$$\square - \square = \square$$

$$\square - \square = \square$$

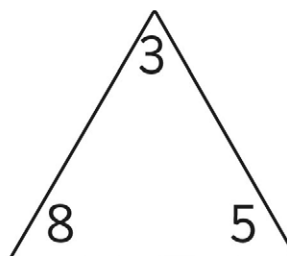
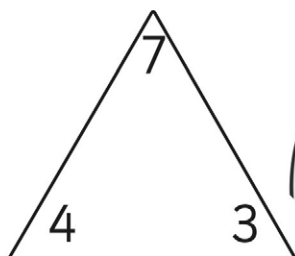


$$\square + \square = \square$$

$$\square + \square = \square$$

$$\square - \square = \square$$

$$\square - \square = \square$$



$$\square + \square = \square$$

$$\square + \square = \square$$

$$\square - \square = \square$$

$$\square - \square = \square$$

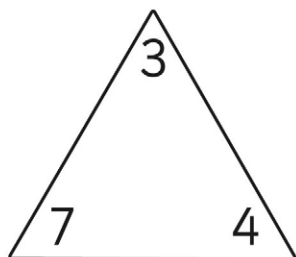
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$$\square + \square = \square$$

$$\square - \square = \square$$

$$\square - \square = \square$$

# Number Family

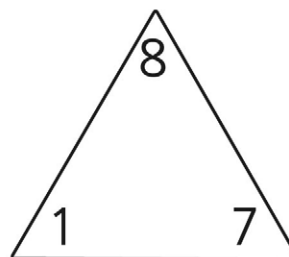


$$\square + \square = \square$$

$$\square + \square = \square$$

$$\square - \square = \square$$

$$\square - \square = \square$$

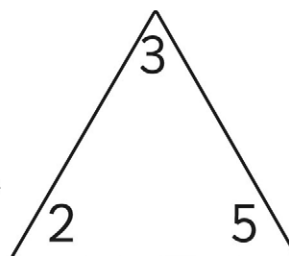
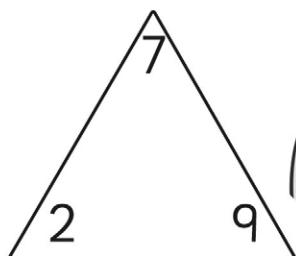


$$\square + \square = \square$$

$$\square + \square = \square$$

$$\square - \square = \square$$

$$\square - \square = \square$$



$$\square + \square = \square$$

$$\square + \square = \square$$

$$\square - \square = \square$$

$$\square - \square = \square$$

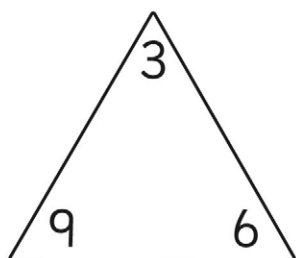
$$\square + \square = \square$$

$$\square + \square = \square$$

$$\square - \square = \square$$

$$\square - \square = \square$$

# Number Family

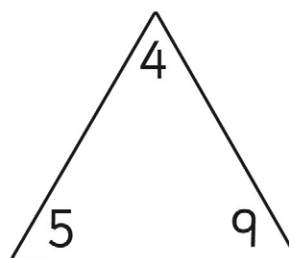


$$\square + \square = \square$$

$$\square + \square = \square$$

$$\square - \square = \square$$

$$\square - \square = \square$$

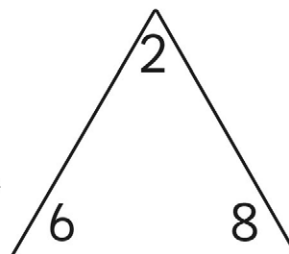
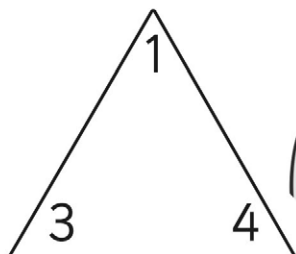


$$\square + \square = \square$$

$$\square + \square = \square$$

$$\square - \square = \square$$

$$\square - \square = \square$$



$$\square + \square = \square$$

$$\square + \square = \square$$

$$\square - \square = \square$$

$$\square - \square = \square$$

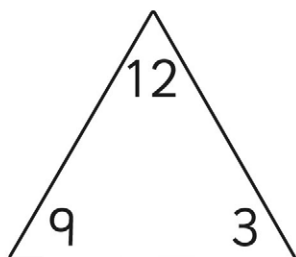
$$\square + \square = \square$$

$$\square + \square = \square$$

$$\square - \square = \square$$

$$\square - \square = \square$$

# Number Family

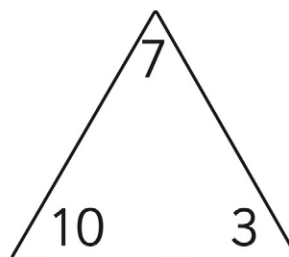


$$\square + \square = \square$$

$$\square + \square = \square$$

$$\square - \square = \square$$

$$\square - \square = \square$$

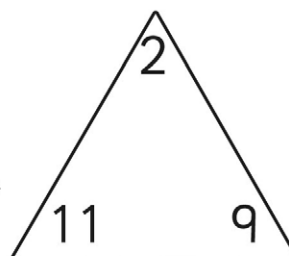
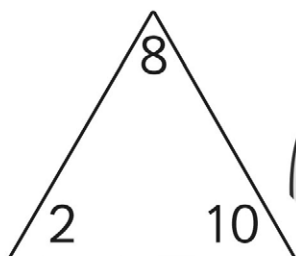


$$\square + \square = \square$$

$$\square + \square = \square$$

$$\square - \square = \square$$

$$\square - \square = \square$$



$$\square + \square = \square$$

$$\square + \square = \square$$

$$\square - \square = \square$$

$$\square - \square = \square$$

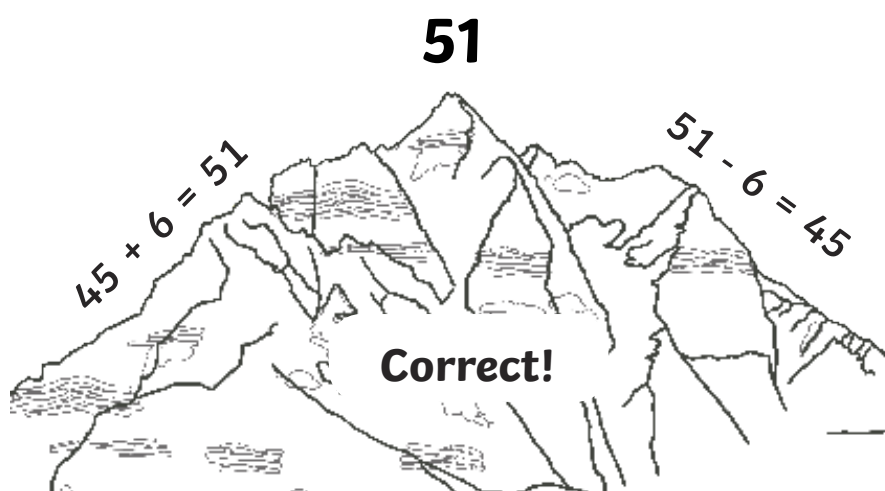
$$\square + \square = \square$$

$$\square + \square = \square$$

$$\square - \square = \square$$

$$\square - \square = \square$$

## 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.

$37 + 7 = 43$

$43 - 7 =$

$25 + 8 = 33$

$33 - 8 =$

$47 + 5 = 52$

$52 - 5 =$

$34 + 6 = 40$

$40 - 34 =$

$76 + 8 = 85$

$85 - 76 =$

| Correct? |
|----------|
|          |
|          |
|          |
|          |
|          |
|          |
|          |
|          |
|          |

$26 + 8 = 44$

$44 - 8 =$

$17 + 9 = 25$

$25 - 9 =$

$22 + 9 = 30$

$30 - 22 =$

$19 + 9 = 28$

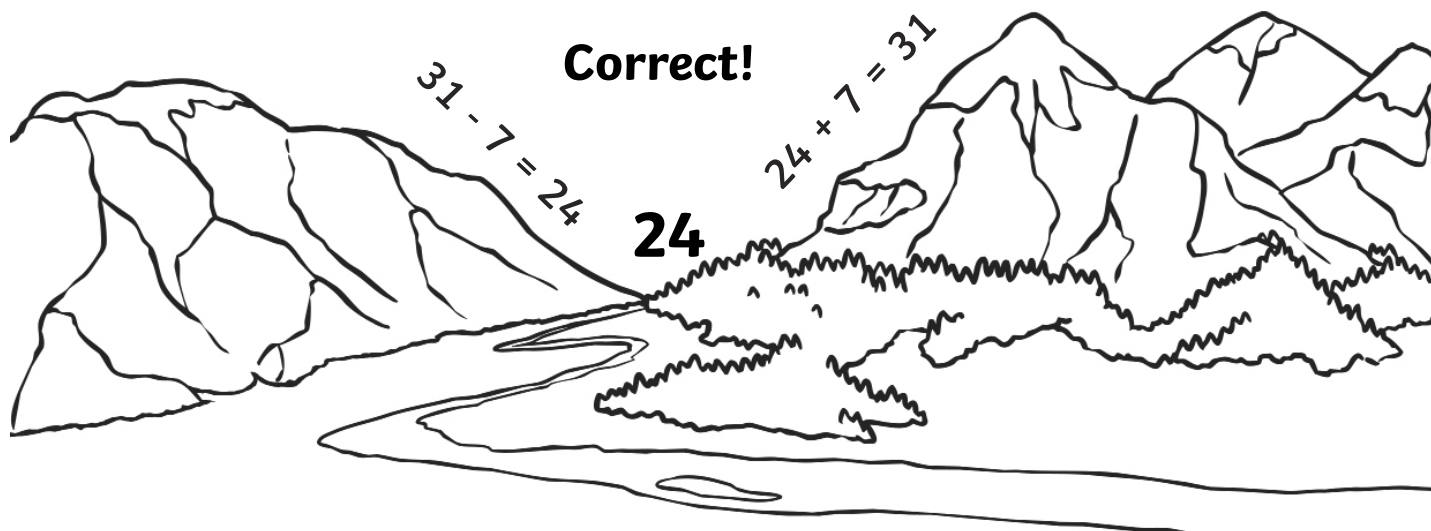
$28 - 9 =$

$46 + 7 = 53$

$53 - 46 =$

| Correct? |
|----------|
|          |
|          |
|          |
|          |
|          |
|          |
|          |
|          |
|          |





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

$45 - 6 = 39$

$39 + 6 =$

$37 - 9 = 26$

$26 + 9 =$

$31 - 3 = 28$

$28 + 3 =$

$42 - 6 = 38$

$38 + 6 =$

$62 - 7 = 54$

$54 + 7 =$

**Correct?**

$22 - 4 = 19$

$19 + 4 =$

$15 - 8 = 10$

$10 + 8 =$

$34 - 7 = 26$

$26 + 7 =$

$51 - 6 = 45$

$45 + 6 =$

$17 - 9 = 8$

$9 + 8 =$

**Correct?**