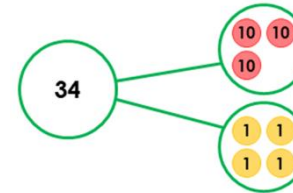


# Year 2 Firecrests Mathematics Autumn 2

## Number Addition and Subtraction Geometry Shape

### Part – whole models

In a part – whole model, numbers can be split into parts. The 2 parts add up to the whole. E.g.,  $30+4=34$



It could also be split as 2 tens and 14 ones.

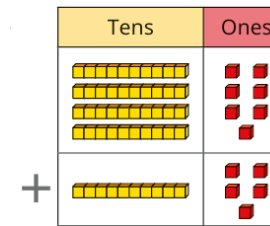
### Number bonds

Number bonds are a pair of numbers that add together to make another specific number.



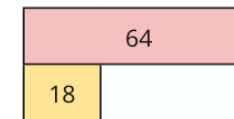
|                          | Key Vocabulary          | Definition   |
|--------------------------|-------------------------|--|
| Addition and Subtraction | <b>addition</b>         | To combine two or more numbers together to make a bigger number.                           |
|                          | <b>fact family</b>      | Group of equations that use the same numbers.  |
|                          | <b>number line</b>      | A line on which numbers are marked at intervals used to help with maths equations          |
|                          | <b>number sentence</b>  | An equation which uses numbers and symbols to represent a problem                          |
|                          | <b>part-whole model</b> | Numbers being split into parts   |
| Geometry                 | <b>subtraction</b>      | To take one number away from another   |
|                          | <b>2D shapes</b>        | 2D shapes have sides and vertices and are completely flat                                  |
|                          | <b>3D shapes</b>        | 3D shapes have 3 dimensions – length, width and depth. They have faces, edges and vertices |
|                          | <b>geometry</b>         | A form of maths concerned with the properties and relations of points, for example shape   |
|                          | <b>symmetry</b>         | A line down the middle where both sides are equal, mirror versions of each other.          |

### Addition



The first step is to add the ones together and then add the tens. In this example there are 12 ones so an extra ten would be formed. The answer would be 62.

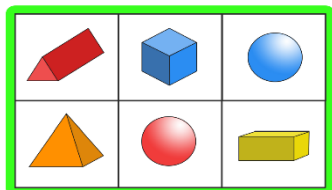
### Subtraction



Subtraction is taking one number away from another. The bar model shows a missing amount.  $64 - 18$  will find the answer. You could subtract 20 and then add two back on = 46

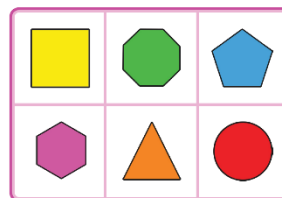
### 3D-Shapes

3D stands for 3-dimensional. They are solid and have 3 ways they can be measured – length, depth and width. 3D shapes occupy space which means we are able to touch and feel them. The world around us is made up of 3D shapes.



### 2D-Shapes

2D stands for 2-dimensional. These shapes are flat and only have 2 ways they can be measured – height and length.



### One more and one less

Add one to find one more and subtract one to find one less.

