# Maths Methods used in Year 4

We want to share with you the ways we teach the four operations in Year 4.

Addition

1. Use a place value grid to model exchanging.
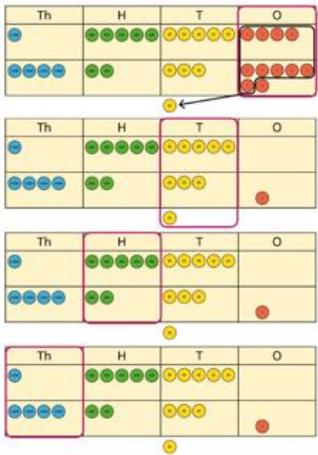
2. Use column addition to complete the calculation.

1.
```
 Th  H  T  O
  1  5  5  4
+ 4  2  3  7
_____
           1
```

2.
```
 Th  H  T  O
  1  5  5  4
+ 4  2  3  7
_____
        9  1
```

3.
```
 Th  H  T  O
  1  5  5  4
+ 4  2  3  7
_____
     7  9  1
```

4.
```
 Th  H  T  O
  1  5  5  4
+ 4  2  3  7
_____
  5  7  9  1
```

Subtraction

1. Use a place value grid to show how to exchange.
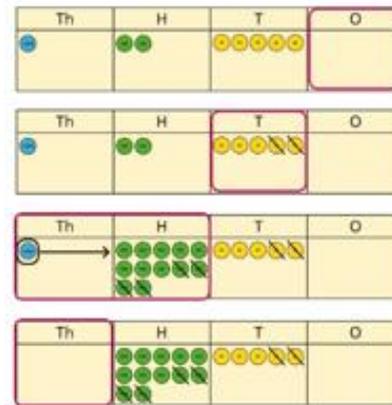
2. Use column subtraction to complete the calculation.

1.
```
 Th  H  T  O
  1  2  5  0
-    4  2  0
_____
           0
```

2.
```
 Th  H  T  O
  1  2  5  0
-    4  2  0
_____
        3  0
```

3.
```
 Th  H  T  O
  1 ¹2  5  0
-    4  2  0
_____
     8  3  0
```

4.
```
 Th  H  T  O
  1 ¹2  5  0
-    4  2  0
_____
     8  3  0
```

Multiplication

1. Use a place value equipment to support understanding.


```
   3  1  2
×        3
_____
   9  3  6
```
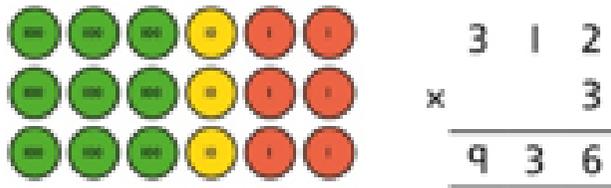
2. Use expanded and formal column method to complete the calculation.

```
    2  3
×      5
_____
    1  5
 1  0  0
_____
 1  1  5
```

```
    2  3
×      5
_____
 1  1  5
     1
```

Division

1. Partition the number into known multiples to solve.

$39 \div 3 = ?$

3 groups of 1 ten   3 groups of 3 ones
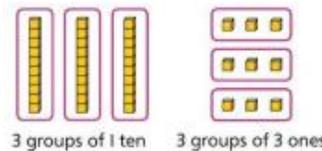
$39 = 30 + 9$

$30 \div 3 = 10$
$9 \div 3 = 3$
$39 \div 3 = 13$

2. Use place value manipulatives to support the idea of a remainder.

$72 \div 5 = 14$ remainder 2