

# Year 4 – Maths Subject Knowledge

## Place Value

### Counting

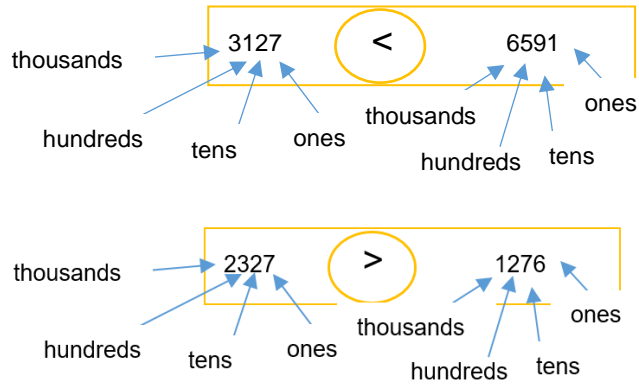
Read, write and represent numbers beyond 1000

1072

one thousand and seventy two

| Th | H | T     | O  |
|----|---|-------|----|
| ●  |   | ●●●●● | ●● |

Compare and order numbers beyond 1000



|             |   |    |    |    |    |    |    |    |    |    |
|-------------|---|----|----|----|----|----|----|----|----|----|
| Multiples 6 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 |
| Multiples 7 | 7 | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63 | 70 |
| Multiples 9 | 9 | 18 | 27 | 36 | 45 | 54 | 63 | 72 | 81 | 90 |

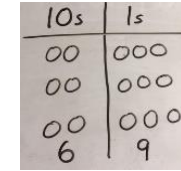
## Multiplication and Division

### Multiplication

Practical method with counters  
 $3 \times 23 = ?$



Pictorial representation

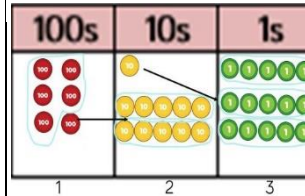


$3 \times 20 = 60$

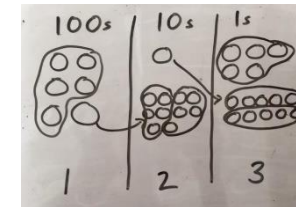
$$\begin{array}{r} 20 \ 3 \\ \times \ 3 \\ \hline 60 \\ 90 \\ \hline 69 \end{array}$$

### Division

Practical use of counters  
 $615 \div 5 = ?$



Pictorial representation



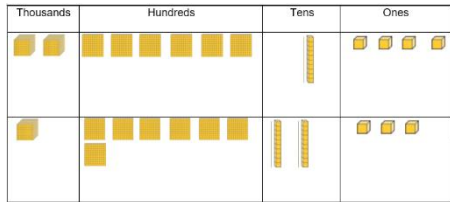
Short division

$$\begin{array}{r} 123 \\ 5 \overline{) 615} \\ \underline{5} \phantom{0} \\ 11 \phantom{0} \\ \underline{10} \phantom{0} \\ 15 \\ \underline{15} \\ 0 \end{array}$$

## Addition and Subtraction

### Addition

Practical representation  
 $2614 + 1723 = ?$

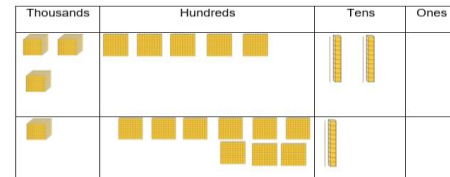


Abstract column method

$$\begin{array}{r} 2614 \\ + 1723 \\ \hline 4337 \end{array}$$

### Subtraction

Practical representation  
 $3520 - 1910 = ?$



Abstract column method

$$\begin{array}{r} 3520 \\ - 1910 \\ \hline 1610 \end{array}$$

## Fractions

### Adding Fractions

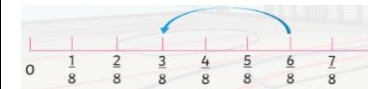
$$\frac{1}{7} + \frac{4}{7} = \frac{5}{7}$$



Add the numerators together

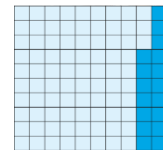
Denominator remains unchanged

### Subtracting Fractions



$$\frac{6}{8} - \frac{3}{8} = \frac{3}{8}$$

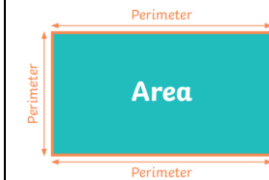
### Counting in hundredths



$$\frac{17}{100}$$

## Measurement and Geometry

### Shapes



Rectilinear Figures

A 2D shape whose sides all meet at right angles



### Time

Convert time between analogue and digital clocks



### Angles

