

# Year 2: Maths Knowledge Mat

## Read and write numbers to at least 100 in numerals and in words

0	zero	10	ten
1	one	20	twenty
2	two	30	thirty
3	three	40	forty
4	four	50	fifty
5	five	60	sixty
6	six	70	seventy
7	seven	80	eighty
8	eight	90	ninety
9	nine	100	one hundred

## Symbols and Vocabulary

<b>x</b>	multiply, times
<b>÷</b>	divide
<b>&lt;</b>	is less than
<b>&gt;</b>	is greater than
<b>=</b>	is equal to

## Counting to at least 100

Count forwards and backwards from <b>any number in steps of 2</b>
Count forwards and backwards from <b>any number in steps of 3</b>
Count forwards and backwards from <b>any number in steps of 5</b>
Count forwards and backwards from <b>any number in steps of 10</b>

## Addition and multiplication can be done in any order. But subtraction and division can not!

$23 + 11 = 34$ $11 + 23 = 34$
$3 \times 5 = 15$ $5 \times 3 = 15$
$23 - 11 = 12$ But you can not take 23 coins from 11 coins
$10 \div 5 = 2$ $5 \div 10 = \frac{1}{2}$

## Using knowledge of number bonds within 20 (from Year 1) to calculate to at least 100

Examples: If $3 + 7 = 10$ then $30 + 70 = 100$ If $6 - 4 = 2$ then $60 - 40 = 20$
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## Multiplication Tables

x	2	5	10
1	2	5	10
2	4	10	20
3	6	15	30
4	8	20	40
5	10	25	50
6	12	30	60
7	14	35	70
8	16	40	80
9	18	45	90
10	20	50	100
11	22	55	110
12	24	60	120

## Fractions

$\frac{1}{2}$	a half
$\frac{1}{4}$	a quarter
$\frac{3}{4}$	three quarters
$\frac{1}{2} =$ two quarters	
You can calculate fractions of numbers:	
$\frac{1}{2}$ of 20 is 10. This is the same as dividing 20 by 2.	
$\frac{1}{4}$ of 20 is 5. This is the same as dividing 20 by 4.	

## 2 Digit Place value

2 Digit Place value	Tens	Ones
Example 56 is	5	6
99	9	9
7	0	7

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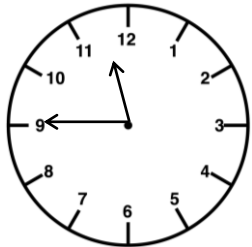
## Time – Sticky Knowledge

There are **24 hours in a day**

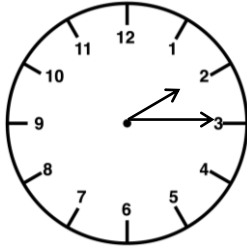
There are **60 minutes in an hour and a clock shows these in 5 minute intervals**

**Quarter to** is when the minute hand points to the 9 and the hour hand nearly points at the hour.

**Quarter past** is when the minute hand points to the three and the hour hand points past just the hour.



Quarter to 12



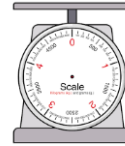
Quarter past 2

## Key Vocabulary - Measurement

Metre m  
Centimetre cm



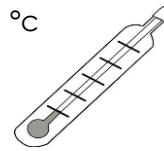
Kilogram kg  
Gram g



Litre l  
Millilitre ml



Degrees centigrade °C



## 2D Shapes

Quadrilaterals have four sides



Parallelogram



Isosceles Trapezoid



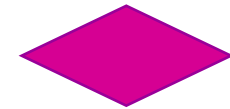
Rectangle



Square



Trapezoid

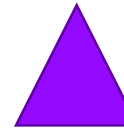


Rhombus



Kite

A polygon is a 2D shape with straight sides



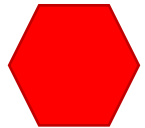
Triangle



Quadrilateral



Pentagon



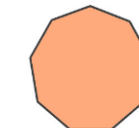
Hexagon



Heptagon



Octagon



Nonagon



Decagon

## Coins

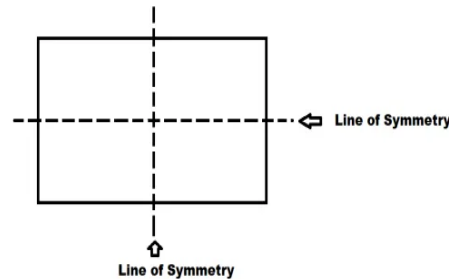
Pounds £



Pence p

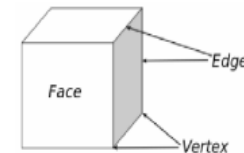


## Symmetry



## 3D Shapes

Faces, edges and vertices



## Direction

Quarter turn is 1 right angle  
 $\frac{3}{4}$  turn is 3 right angles

