

# Langstone Infant School



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## Maths Helping Hand

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### **Maths Helping Hand Book**

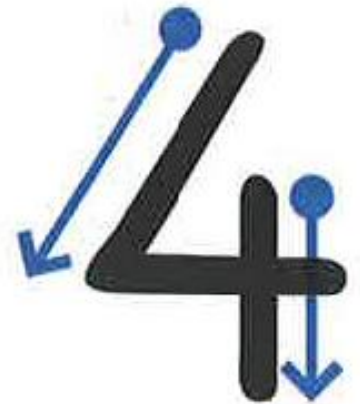
The purpose of this booklet is to help you support your child's learning in maths by showing you some of the things we use in class.

We appreciate that how maths is taught today is very different from how you were taught at school and we have many different materials at our disposal.

In this booklet you should be able to find examples of some of the things we use when we teach maths so you know what the children are talking about when they tell you about it, and so you know what we mean in Home Learning.

## Number Formation

When we write a number we always start from the top.



## Writing numbers as words

<b>0</b>	zero
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<b>1</b>	one
<b>2</b>	two
<b>3</b>	three
<b>4</b>	four
<b>5</b>	five
<b>6</b>	six
<b>7</b>	seven
<b>8</b>	eight
<b>9</b>	nine
<b>10</b>	ten

<b>11</b>	eleven
<b>12</b>	twelve
<b>13</b>	thirteen
<b>14</b>	fourteen
<b>15</b>	fifteen
<b>16</b>	sixteen
<b>17</b>	seventeen
<b>18</b>	eighteen
<b>19</b>	nineteen
<b>20</b>	twenty

<b>21</b>	twenty-one
<b>22</b>	twenty-two
<b>23</b>	twenty-three
<b>24</b>	twenty-four
<b>25</b>	twenty-five
<b>26</b>	twenty-six
<b>27</b>	twenty-seven
<b>28</b>	twenty-eight
<b>29</b>	twenty-nine
<b>30</b>	thirty

<b>40</b>	forty
<b>50</b>	fifty
<b>60</b>	sixty
<b>70</b>	seventy
<b>80</b>	eighty
<b>90</b>	ninety
<b>100</b>	one hundred

# Hundred Squares

We use these for –

- Learning place value
- Looking for patterns
- Adding
- Subtracting
- Counting on and back

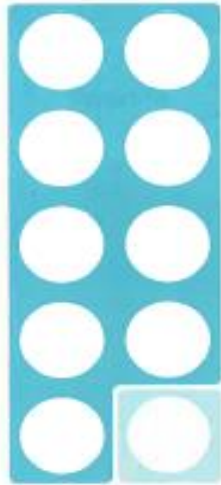
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

## Number Bonds to 10

We use bead strings, fingers, Numicon (pictured) to represent number bonds to 10.



$$10 =$$



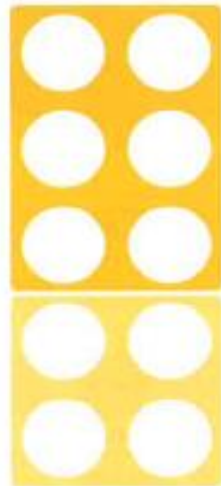
$$9 + 1$$
$$1 + 9$$



$$8 + 2$$
$$2 + 8$$



$$7 + 3$$
$$3 + 7$$



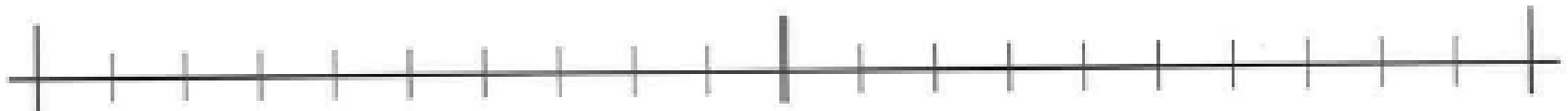
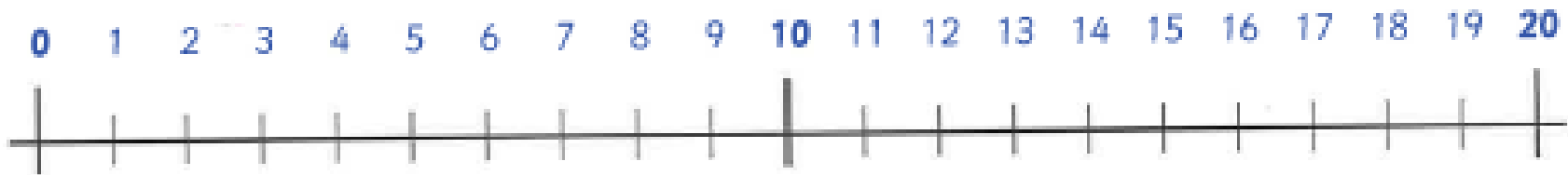
$$6 + 4$$
$$4 + 6$$



$$5 + 5$$

## Number lines

Number lines are used for adding, subtraction, multiplication and division. They are also used for place value. We start by using number lines with numbers, then we use unnumbered lines. When we are using larger numbers we draw our own number lines – these are called unstructured number lines.



## Multiplication Facts

At Key Stage 1 we expect the children to learn these facts. They should be able to use and apply the knowledge, not just be able to recite them by rote.

<b>2 x</b>				
1	x	2	=	<b>2</b>
2	x	2	=	<b>4</b>
3	x	2	=	<b>6</b>
4	x	2	=	<b>8</b>
5	x	2	=	<b>10</b>
6	x	2	=	<b>12</b>
7	x	2	=	<b>14</b>
8	x	2	=	<b>16</b>
9	x	2	=	<b>18</b>
10	x	2	=	<b>20</b>
11	x	2	=	<b>22</b>
12	x	2	=	<b>24</b>

<b>5 x</b>				
1	x	5	=	<b>5</b>
2	x	5	=	<b>10</b>
3	x	5	=	<b>15</b>
4	x	5	=	<b>20</b>
5	x	5	=	<b>25</b>
6	x	5	=	<b>30</b>
7	x	5	=	<b>35</b>
8	x	5	=	<b>40</b>
9	x	5	=	<b>45</b>
10	x	5	=	<b>50</b>
11	x	5	=	<b>55</b>
12	x	5	=	<b>60</b>

<b>10 x</b>				
1	x	10	=	<b>10</b>
2	x	10	=	<b>20</b>
3	x	10	=	<b>30</b>
4	x	10	=	<b>40</b>
5	x	10	=	<b>50</b>
6	x	10	=	<b>60</b>
7	x	10	=	<b>70</b>
8	x	10	=	<b>80</b>
9	x	10	=	<b>90</b>
10	x	10	=	<b>100</b>
11	x	10	=	<b>110</b>
12	x	10	=	<b>120</b>

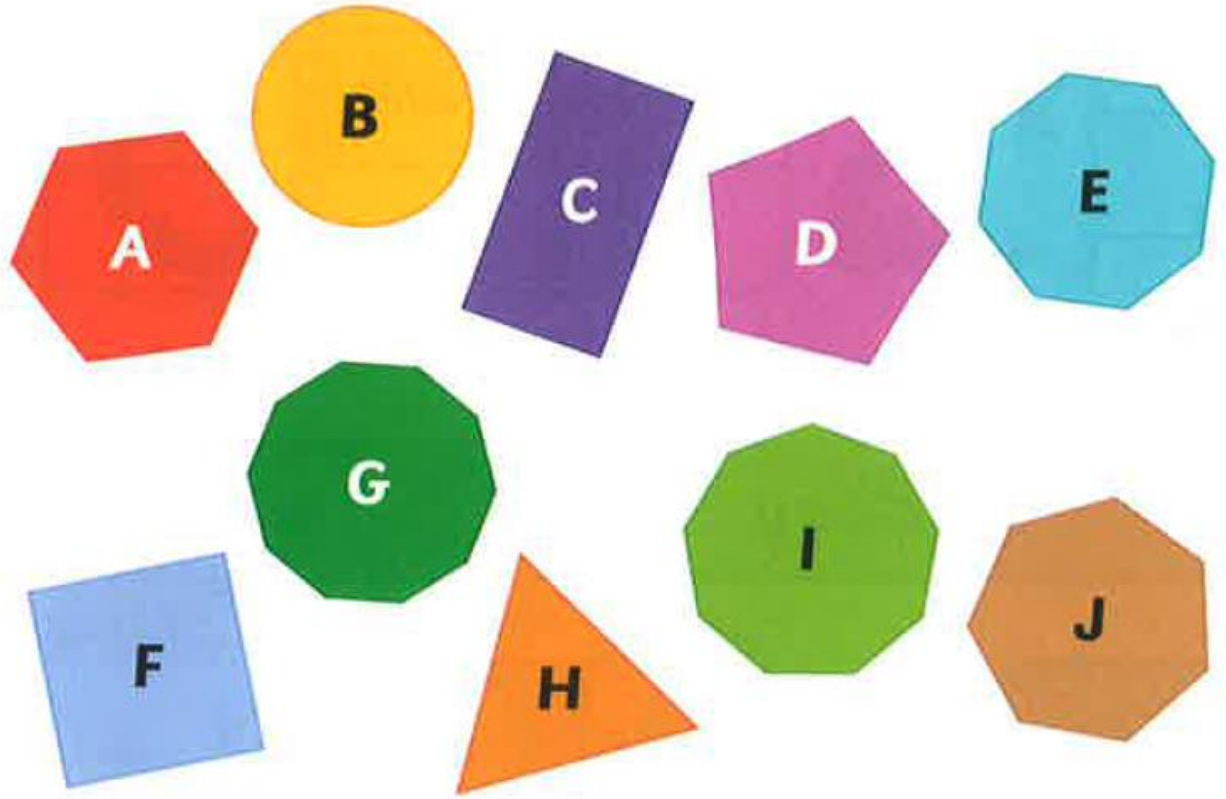
Example question – There are 5 buses parked at the bus station, each bus has 4 wheels, how many wheels are there altogether?



## Shape

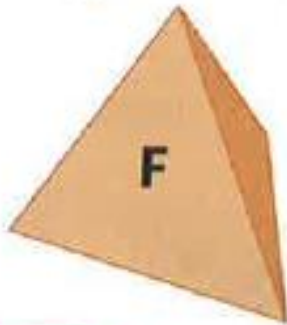
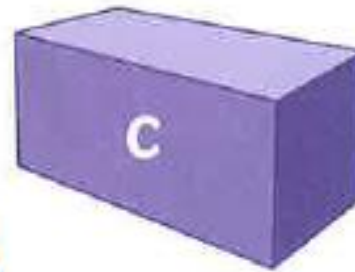
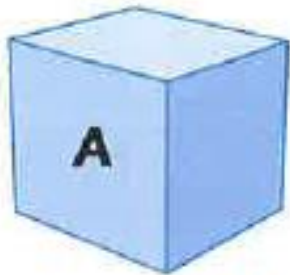
We learn about shapes and their properties, both 2D – flat shapes and 3D solid shapes.

**2D (flat)**



	Shape	Sides
<b>A</b>	hexagon	6
<b>B</b>	circle	1
<b>C</b>	rectangle	4
<b>D</b>	pentagon	5
<b>E</b>	octagon	8
<b>F</b>	square	4
<b>G</b>	decagon	10
<b>H</b>	triangle	3
<b>I</b>	nonagon	9
<b>J</b>	heptagon	7

## 3D (solid)



	Shape	Edges	Faces	Vertices
<b>A</b>	cube	12	6	8
<b>B</b>	sphere	0	1	0
<b>C</b>	cuboid	12	6	8
<b>D</b>	square based pyramid	8	5	5
<b>E</b>	cone	1	2	1
<b>F</b>	triangular based pyramid	6	4	4
<b>G</b>	cylinder	2	3	0
<b>H</b>	triangular prism	9	5	6