

# **Numeracy Key Facts**

## **Booklet**



**St Bernard's Primary School  
Primary 3**

# Quick Recall Facts

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

**Count orally in 1's forwards and backwards within 100**

- What number comes after.....
- What number comes before...
- What number comes in between...
- 

**Count orally in 2's forwards and backwards within 100**

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

Count orally in 5's forwards and backwards within 100

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

Count orally in 10's forwards and backwards within 100

Count orally in 1's, 2's, 5s and 10's forwards, backwards from any given number within 50, then 100

41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60

e.g. count from 43 to 52 forwards and backwards

## Order Numbers

Tens	Ones
3	7
3	2
7	6
6	2



◆ Begin at the tens and compare  
76 is the biggest  
62 is next biggest

Tens	Ones
3	7
3	2
<del>7</del>	<del>6</del>
<del>6</del>	<del>2</del>

◆ Move to the ones and compare

Order is: 76 62 37 32

## Odd and Even Numbers

- **Even numbers** - can be paired up



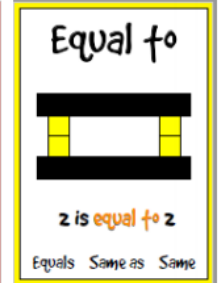
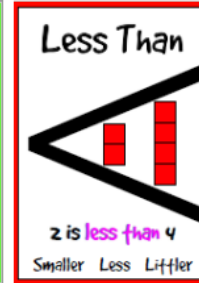
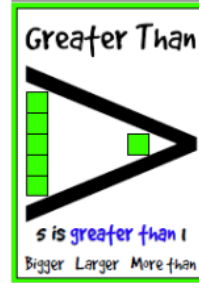
Tip - the last digit always 0 2 4 6 8

- **Odd numbers** - cannot be paired up



Tip - the last digit always 1 3 5 7 9

## Inequality Symbols



We say: 9 is greater than 5

We write: 9 > 5

We say: 5 is less than 9

We write: 5 < 9

## Numbers in Figures and Words

1	one
2	two
3	three
4	four
5	five
6	six
7	seven
8	eight
9	nine
10	ten

11	eleven
12	twelve
13	thirteen
14	fourteen
15	fifteen
16	sixteen
17	seventeen
18	eighteen
19	nineteen

20	twenty
21	twenty one
22	twenty two
23	twenty three
24	twenty four
25	twenty five
26	twenty six
27	twenty seven
28	twenty eight
29	twenty nine

30	thirty
40	forty
50	fifty
60	sixty
70	seventy
80	eighty
90	ninety
100	one hundred

## Addition and Subtraction Words

altogether

sum of

total

plus

### Words for SUBTRACT

take away


how many left?

difference


how many more?

how many less?


## Subtraction is the inverse of addition



$$3 + 2 = 5$$



$$5 - 2 = 3$$



$$5 - 3 = 2$$

## Number Bonds to 10

●	●	●	●	●	●	●	●	●	10
1	●	●	●	●	●	●	●	●	9
●	2	●	●	●	●	●	●	●	8
●	●	3	●	●	●	●	●	●	7
●	●	●	4	●	●	●	●	●	6
●	●	●	●	5	●	●	●	●	5
●	●	●	●	●	6	●	●	●	4
●	●	●	●	●	●	7	●	●	3
●	●	●	●	●	●	●	8	●	2
●	●	●	●	●	●	●	●	9	1

0 + 10	1 + 9	2 + 8	3 + 7	4 + 6
10 + 0	9 + 1	8 + 2	7 + 3	6 + 4
		5 + 5		

## Number Bonds to 20

10 + 10	11 + 9	12 + 8	13 + 7	14 + 6
15 + 5	16 + 4	17 + 3	18 + 2	19 + 1
		20 + 0		

### Fact family for add and subtract


$$13 + 7 = 20$$

$$7 + 13 = 20$$

$$20 - 13 = 7$$


$$20 - 7 = 13$$

## Add and Subtract




$$20 + 8 = 28$$

$$\begin{array}{r} 20 \\ + 8 \\ \hline 28 \end{array}$$



$$28 - 3 = 25$$

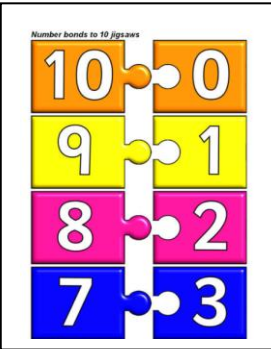
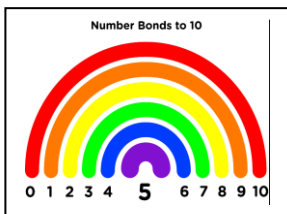
$$\begin{array}{r} 28 \\ - 3 \\ \hline 25 \end{array}$$



$$28 - 10 = 18$$

$$\begin{array}{r} 28 \\ - 10 \\ \hline 18 \end{array}$$

# Number Stories

<b>Addition Story of 10</b>	<b>Subtraction Story of 10</b>	<b>Addition Story of 11</b>	<b>Subtraction Story of 11</b>	<b>Addition Story of 12</b>	<b>Subtraction Story of 12</b>	<b>Addition Story of 13</b>	<b>Subtraction Story of 13</b>
0 + 10 = 10 1 + 9 = 10 2 + 8 = 10 3 + 7 = 10 4 + 6 = 10 5 + 5 = 10 6 + 4 = 10 7 + 3 = 10 8 + 2 = 10 9 + 1 = 10 10 + 0 = 10	10 - 0 = 10 10 - 1 = 9 10 - 2 = 8 10 - 3 = 7 10 - 4 = 6 10 - 5 = 5 10 - 6 = 4 10 - 7 = 3 10 - 8 = 2 10 - 9 = 1 10 - 10 = 0	0 + 11 = 11 1 + 10 = 11 2 + 9 = 11 3 + 8 = 11 4 + 7 = 11 5 + 6 = 11 6 + 5 = 11 7 + 4 = 11 8 + 3 = 11 9 + 2 = 11 10 + 1 = 11 11 + 0 = 11	11 - 0 = 11 11 - 1 = 10 11 - 2 = 9 11 - 3 = 8 11 - 4 = 7 11 - 5 = 6 11 - 6 = 5 11 - 7 = 4 11 - 8 = 3 11 - 9 = 2 11 - 10 = 1 11 - 11 = 0	0 + 12 = 12 1 + 11 = 12 2 + 10 = 12 3 + 9 = 12 4 + 8 = 12 5 + 7 = 12 6 + 6 = 12 7 + 5 = 12 8 + 4 = 12 9 + 3 = 12 10 + 2 = 12 11 + 1 = 12 12 + 0 = 12	12 - 0 = 12 12 - 1 = 11 12 - 2 = 10 12 - 3 = 9 12 - 4 = 8 12 - 5 = 7 12 - 6 = 6 12 - 7 = 5 12 - 8 = 4 12 - 9 = 3 12 - 10 = 2 12 - 11 = 1 12 - 12 = 0	0 + 13 = 13 1 + 12 = 13 2 + 11 = 13 3 + 10 = 13 4 + 9 = 13 5 + 8 = 13 6 + 7 = 13 7 + 6 = 13 8 + 5 = 13 9 + 4 = 13 10 + 3 = 13 11 + 2 = 13 12 + 1 = 13 13 + 0 = 13	13 - 0 = 13 13 - 1 = 12 13 - 2 = 11 13 - 3 = 10 13 - 4 = 9 13 - 5 = 8 13 - 6 = 7 13 - 7 = 6 13 - 8 = 5 13 - 9 = 4 13 - 10 = 3 13 - 11 = 2 13 - 12 = 1 13 - 13 = 0
<b>Addition Story of 14</b>	<b>Subtraction Story of 14</b>	<b>Addition Story of 15</b>	<b>Subtraction Story of 15</b>	<b>Addition Story of 16</b>	<b>Subtraction Story of 16</b>	<b>Addition Story of 17</b>	<b>Subtraction Story of 17</b>
0 + 14 = 14 1 + 13 = 14 2 + 12 = 14 3 + 11 = 14 4 + 10 = 14 5 + 9 = 14 6 + 8 = 14 7 + 7 = 14 8 + 6 = 14 9 + 5 = 14 10 + 4 = 14 11 + 3 = 14 12 + 2 = 14 13 + 1 = 14 14 + 0 = 14	14 - 0 = 14 14 - 1 = 13 14 - 2 = 12 14 - 3 = 11 14 - 4 = 10 14 - 5 = 9 14 - 6 = 8 14 - 7 = 7 14 - 8 = 6 14 - 9 = 5 14 - 10 = 4 14 - 11 = 3 14 - 12 = 2 14 - 13 = 1 14 - 14 = 0	0 + 15 = 15 1 + 14 = 15 2 + 13 = 15 3 + 12 = 15 4 + 11 = 15 5 + 10 = 15 6 + 9 = 15 7 + 8 = 15 8 + 7 = 15 9 + 6 = 15 10 + 5 = 15 11 + 4 = 15 12 + 3 = 15 13 + 2 = 15 14 + 1 = 15 15 + 0 = 15	15 - 0 = 15 15 - 1 = 14 15 - 2 = 13 15 - 3 = 12 15 - 4 = 11 15 - 5 = 10 15 - 6 = 9 15 - 7 = 8 15 - 8 = 7 15 - 9 = 6 15 - 10 = 5 15 - 11 = 4 15 - 12 = 3 15 - 13 = 2 15 - 14 = 1 15 - 15 = 0	0 + 16 = 16 1 + 15 = 16 2 + 14 = 16 3 + 13 = 16 4 + 12 = 16 5 + 11 = 16 6 + 10 = 16 7 + 9 = 16 8 + 8 = 16 9 + 7 = 16 10 + 6 = 16 11 + 5 = 16 12 + 4 = 16 13 + 3 = 16 14 + 2 = 16 15 + 1 = 16 16 + 0 = 16	16 - 0 = 16 16 - 1 = 15 16 - 2 = 14 16 - 3 = 13 16 - 4 = 12 16 - 5 = 11 16 - 6 = 10 16 - 7 = 9 16 - 8 = 8 16 - 9 = 7 16 - 10 = 6 16 - 11 = 5 16 - 12 = 4 16 - 13 = 3 16 - 14 = 2 16 - 15 = 1 16 - 16 = 0	0 + 17 = 17 1 + 16 = 17 2 + 15 = 17 3 + 14 = 17 4 + 13 = 17 5 + 12 = 17 6 + 11 = 17 7 + 10 = 17 8 + 9 = 17 9 + 8 = 17 10 + 7 = 17 11 + 6 = 17 12 + 5 = 17 13 + 4 = 17 14 + 3 = 17 15 + 2 = 17 16 + 1 = 17 17 + 0 = 17	17 - 0 = 17 17 - 1 = 16 17 - 2 = 15 17 - 3 = 14 17 - 4 = 13 17 - 5 = 12 17 - 6 = 11 17 - 7 = 10 17 - 8 = 9 17 - 9 = 8 17 - 10 = 7 17 - 11 = 6 17 - 12 = 5 17 - 13 = 4 17 - 14 = 3 17 - 15 = 2 17 - 16 = 1 17 - 17 = 0
<b>Addition Story of 18</b>	<b>Subtraction Story of 18</b>	<b>Addition Story of 19</b>	<b>Subtraction Story of 19</b>	<b>Addition Story of 20</b>	<b>Subtraction Story of 20</b>	 <p>Number bonds to 10 jigsaw puzzle showing pairs: 10 and 0, 9 and 1, 8 and 2, 7 and 3.</p>	
0 + 18 = 18 1 + 17 = 18 2 + 16 = 18 3 + 15 = 18 4 + 14 = 18 5 + 13 = 18 6 + 12 = 18 7 + 11 = 18 8 + 10 = 18 9 + 9 = 18 10 + 8 = 18 11 + 7 = 18 12 + 6 = 18 13 + 5 = 18 14 + 4 = 18 15 + 3 = 18 16 + 2 = 18 17 + 1 = 18 18 + 0 = 18	18 - 0 = 18 18 - 1 = 17 18 - 2 = 16 18 - 3 = 15 18 - 4 = 14 18 - 5 = 13 18 - 6 = 12 18 - 7 = 11 18 - 8 = 10 18 - 9 = 9 18 - 10 = 8 18 - 11 = 7 18 - 12 = 6 18 - 13 = 5 18 - 14 = 4 18 - 15 = 3 18 - 16 = 2 18 - 17 = 1 18 - 18 = 0	0 + 19 = 19 1 + 18 = 19 2 + 17 = 19 3 + 16 = 19 4 + 15 = 19 5 + 14 = 19 6 + 13 = 19 7 + 12 = 19 8 + 11 = 19 9 + 10 = 19 10 + 9 = 19 11 + 8 = 19 12 + 7 = 19 13 + 6 = 19 14 + 5 = 19 15 + 4 = 19 16 + 3 = 19 17 + 2 = 19 18 + 1 = 19 19 + 0 = 19	19 - 0 = 19 19 - 1 = 18 19 - 2 = 17 19 - 3 = 16 19 - 4 = 15 19 - 5 = 14 19 - 6 = 13 19 - 7 = 12 19 - 8 = 11 19 - 9 = 10 19 - 10 = 9 19 - 11 = 8 19 - 12 = 7 19 - 13 = 6 19 - 14 = 5 19 - 15 = 4 19 - 16 = 3 19 - 17 = 2 19 - 18 = 1 19 - 19 = 0	0 + 20 = 20 1 + 19 = 20 2 + 18 = 20 3 + 17 = 20 4 + 16 = 20 5 + 15 = 20 6 + 14 = 20 7 + 13 = 20 8 + 12 = 20 9 + 11 = 20 10 + 10 = 20 11 + 9 = 20 12 + 8 = 20 13 + 7 = 20 14 + 6 = 20 15 + 5 = 20 16 + 4 = 20 17 + 3 = 20 18 + 2 = 20 19 + 1 = 20 20 + 0 = 20	20 - 0 = 20 20 - 1 = 19 20 - 2 = 18 20 - 3 = 17 20 - 4 = 16 20 - 5 = 15 20 - 6 = 14 20 - 7 = 13 20 - 8 = 12 20 - 9 = 11 20 - 10 = 10 20 - 11 = 9 20 - 12 = 8 20 - 13 = 7 20 - 14 = 6 20 - 15 = 5 20 - 16 = 4 20 - 17 = 3 20 - 18 = 2 20 - 19 = 1 20 - 20 = 0	 <p>Number Bonds to 10 rainbow showing the sequence 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10.</p>	

Multiplication of 2's, 5's and 10's

0	x	2	=	0
1	x	2	=	2
2	x	2	=	4
3	x	2	=	6
4	x	2	=	8
5	x	2	=	10
6	x	2	=	12
7	x	2	=	14
8	x	2	=	16
9	x	2	=	18
10	x	2	=	20
11	x	2	=	22
12	x	2	=	24

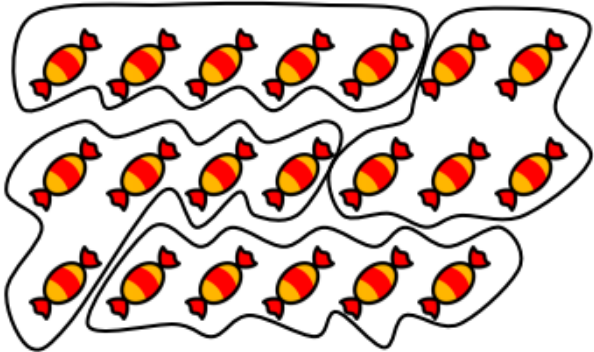
0	x	5	=	0
1	x	5	=	5
2	x	5	=	10
3	x	5	=	15
4	x	5	=	20
5	x	5	=	25
6	x	5	=	30
7	x	5	=	35
8	x	5	=	40
9	x	5	=	45
10	x	5	=	50
11	x	5	=	55
12	x	5	=	60

0	x	10	=	0
1	x	10	=	10
2	x	10	=	20
3	x	10	=	30
4	x	10	=	40
5	x	10	=	50
6	x	10	=	60
7	x	10	=	70
8	x	10	=	80
9	x	10	=	90
10	x	10	=	100
11	x	10	=	110
12	x	10	=	120

Division

**Example1:** Here are 20 sweets to share  
Each child gets 5 sweets  
How many children are there?

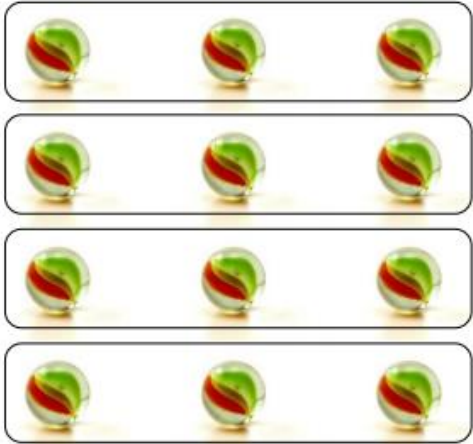
Divide them up into groups of 5 sweets-like this



There must be 4 children

**Example2:** Here are 12 marbles to share  
There are 4 children.  
How many marbles does each get?

Divide them up into 4 groups - like this



Each child gets 3 marbles

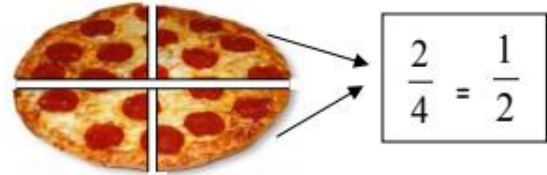
# Fractions (Practical)

**To work out a half**  
Split into two equal parts



$10 \text{ sweets} \div 2 = 5 \text{ sweets}$   
OR  $\frac{1}{2}$  of 10 =  $10 \div 2 = 5$

**To work out a quarter**  
Split into four equal parts



$8 \text{ strawberries} \div 4 = 2 \text{ strawberries}$   
OR  $\frac{1}{4}$  of 8 =  $8 \div 4 = 2$

# Time

## Money

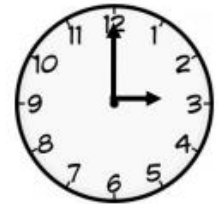


1p      2p      5p      10p  
20p    50p    £1      £2

The long pointer is called the MINUTE hand.  
The short pointer is called the HOUR hand  
When the long pointer is on 12, we say o'clock



8 o'clock

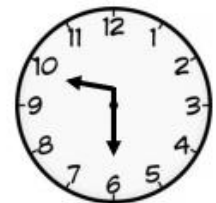


3 o'clock

When the long pointer is on 6, we say 'half past'



Half past 2

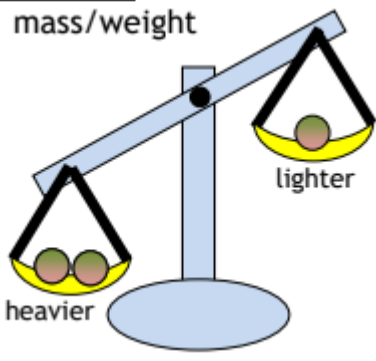


Half past 9



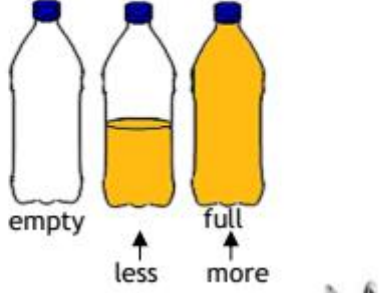
Measures

• mass/weight



More than a kilogram  
Less than a kilogram  
Around one kilogram

• capacity/volume



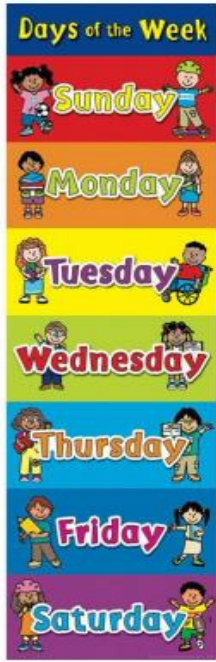
More than a litre  
Less than a litre  
Around one litre

• length

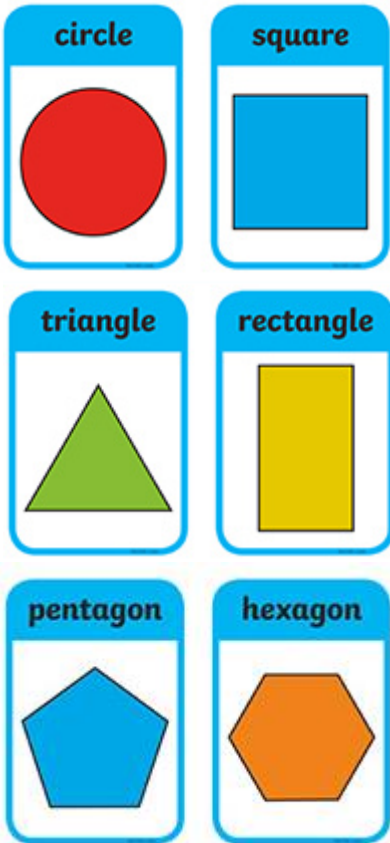


More than a metre  
Less than a metre  
Around one metre

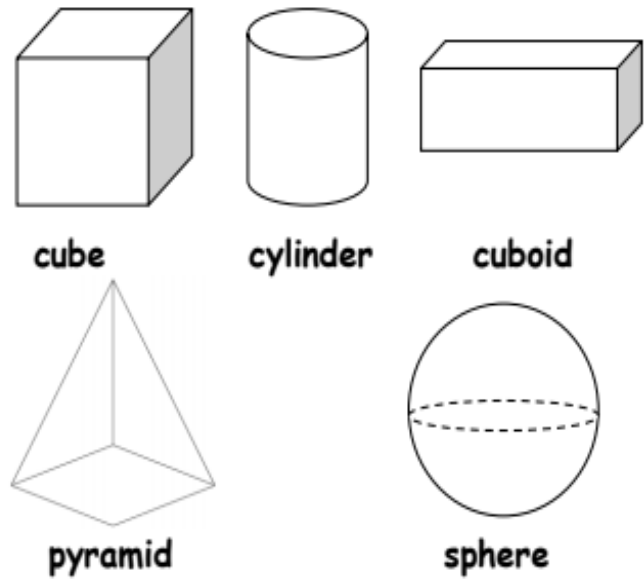
Know the days of the week and the months of the year.



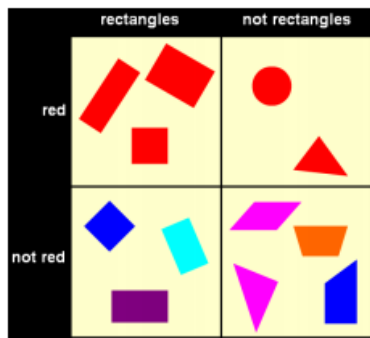
## 2D Shape



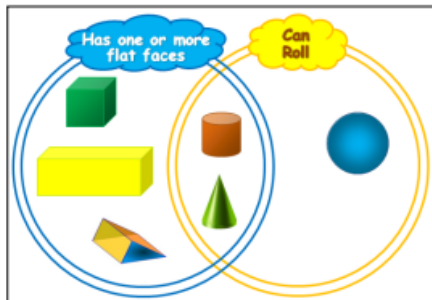
## 3D Shape



## Data Handling



Carroll diagram



Venn diagram

Tally chart showing animals in the zoo

Animal	Tally	Number of animals
Penguin	IIII	4
Lion	III	3
Snake	IIII I	6
Giraffe	II	2
Monkey	IIII II	7

Block graph to show animals in the zoo

