



Somerset Bridge Primary School
Aspire - Brave - Care - Collaborate

Maths: Spring Y3

Multiplication and Division

Multiplication Table and Division Facts

3 x Table	4 x Table	8 x Table
1x3 = 3	1x4 = 4	1x8 = 8
2x3 = 6	2x4 = 8	2x8 = 16
3x3 = 9	3x4 = 12	3x8 = 24
4x3 = 12	4x4 = 16	4x8 = 32
5x3 = 15	5x4 = 20	5x8 = 40
6x3 = 18	6x4 = 24	6x8 = 48
7x3 = 21	7x4 = 28	7x8 = 56
8x3 = 24	8x4 = 32	8x8 = 64
9x3 = 27	9x4 = 36	9x8 = 72
10x3 = 30	10x4 = 40	10x8 = 80
11x3 = 33	11x4 = 44	11x8 = 88
12x3 = 36	12x4 = 48	12x8 = 96

Division Facts

3 ÷ 3 = 1	4 ÷ 4 = 1	8 ÷ 8 = 1
6 ÷ 3 = 2	8 ÷ 4 = 2	16 ÷ 8 = 2
9 ÷ 3 = 3	12 ÷ 4 = 3	24 ÷ 8 = 3
12 ÷ 3 = 4	16 ÷ 4 = 4	32 ÷ 8 = 4
15 ÷ 3 = 5	20 ÷ 4 = 5	40 ÷ 8 = 5
18 ÷ 3 = 6	24 ÷ 4 = 6	48 ÷ 8 = 6
21 ÷ 3 = 7	28 ÷ 4 = 7	56 ÷ 8 = 7
24 ÷ 3 = 8	32 ÷ 4 = 8	64 ÷ 8 = 8
27 ÷ 3 = 9	36 ÷ 4 = 9	72 ÷ 8 = 9
30 ÷ 3 = 10	40 ÷ 4 = 10	80 ÷ 8 = 10
33 ÷ 3 = 11	44 ÷ 4 = 11	88 ÷ 8 = 11
36 ÷ 3 = 12	48 ÷ 4 = 12	96 ÷ 8 = 12

12x12 Multiplication Table

x	0	1	2	3	4	5	6	7	8	9	10	11	12
0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10	11	12
2	0	2	4	6	8	10	12	14	16	18	20	22	24
3	0	3	6	9	12	15	18	21	24	27	30	33	36
4	0	4	8	12	16	20	24	28	32	36	40	44	48
5	0	5	10	15	20	25	30	35	40	45	50	55	60
6	0	6	12	18	24	30	36	42	48	54	60	66	72
7	0	7	14	21	28	35	42	49	56	63	70	77	84
8	0	8	16	24	32	40	48	56	64	72	80	88	96
9	0	9	18	27	36	45	54	63	72	81	90	99	108
10	0	10	20	30	40	50	60	70	80	90	100	110	120
11	0	11	22	33	44	55	66	77	88	99	110	121	132
12	0	12	24	36	48	60	72	84	96	108	120	132	144

Written Multiplication and Division Statements

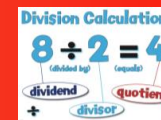
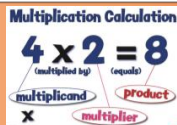
$5 \times 4 = 20$
 $20 \div 4 = 5$

$4 \times 5 = 20$
 $20 \div 4 = 5$

There are called inverse operations.

Key Vocabulary

Multiplication	When you take one number and add it together a number of times.
Division	Separating a number into parts.
Double	Two equal, identical parts.
Half	An amount equal to half a whole.
Factor	Factors are what we can multiply to get the number.
Array	An arrangement of objects in rows or columns.
Regroup	When you make groups of ten.
Inverse	The reverse of a calculation. E.g. $5 \times 3 = 15$ $15 \div 3 = 5$
Even	A number that can be divide by 2 with no remainders. 2, 4, 6, 8, 0
Odd	A whole number that cannot be divided into two equal whole numbers. 1, 3, 5, 7, 9
Commutative	Swap the digits around and still get the same answer.





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Maths: Spring Y3

Measurement: Money

Pounds and Pence



£3 and 25 pence

Adding Amounts



£1 and 60p + £1 and 52p
There is £2 and 112p.
112p is £1 and 12p
Altogether there is £3 and 12p.



£52 and 13 pence

?	
£1 and 60p	

Converting Pounds and Pence

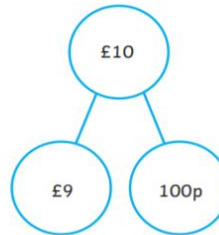


120 pence
100 pence is £1
120 pence is £1 and 20 pence.

Key Vocabulary

Amount	The total value of money.	✓
Change	When you pay for something the money given back is 'change'.	
Convert	Change pounds into pence.	
Coin	A small flat piece of metal with a value.	
Note	Money made from thin plastic.	
Value	The amount of something.	

Giving Change



£9 - £5 = £4
100p - 67p = 33p
£4 and 33p change

UK Coins



UK Notes





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Maths: Spring Y3

Statistics

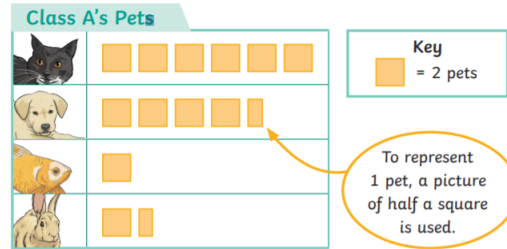
Key Vocabulary



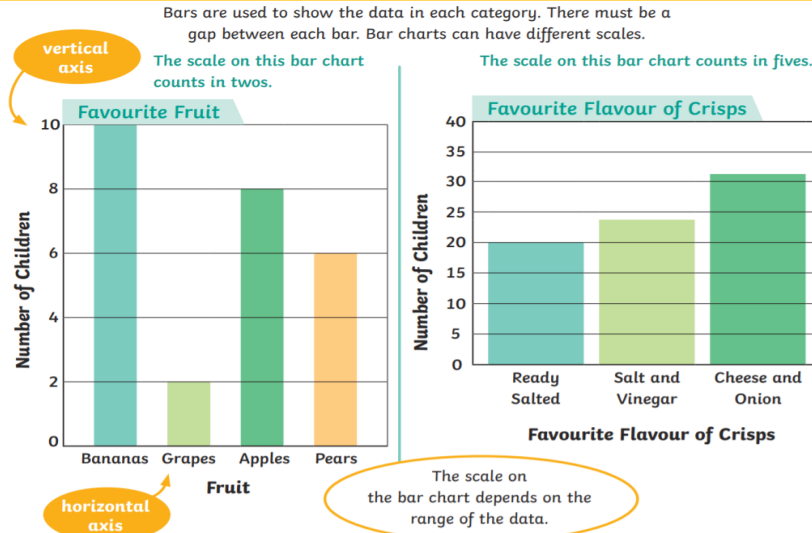
Data	A collection of information.	
Pictogram	A chart that uses pictures or symbols to represent data.	
Bar chart	A way of representing data using bars or strips.	
Horizontal axis	The line on a graph that runs from left to right.	
Vertical axis	The line on a graph that runs up and down.	
Scale	The marks on an axis at fixed intervals.	
Intervals	The range of numbers between two numbers.	
Table	Information arranged in rows and columns.	
Interpret	Making sense of data that has been collected.	

Pictograms

Pictograms use pictures or symbols to represent data. The picture shows what each symbol represents.



Bar Charts



Tables

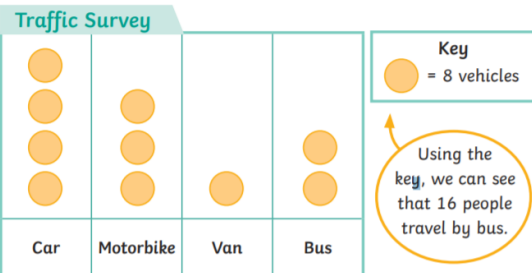


Table to Show Ticket Prices at a Local Cinema

Ticket Type	Weekday Price	Weekend Price
Adult	£6	£7.50
Child	£4	£4.50
Student	£5.50	£6

In order to understand the data presented in a table, you must read the table's title and the headings. Remember to always look at the heading above each piece of information.



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Maths: Spring Y3 Measurement

Length and Perimeter

Key Vocabulary



Perimeter	Around the whole shape.
Length	The measurement from end to end.
Width	The measurement from side to side.
Height	The measurement from top to base.
Meter (m)	A unit of length: 100 cm.
Centimetre (cm)	A unit of length: 10 mm
Millimetre	A unit of length: 10 mm in 1 cm.

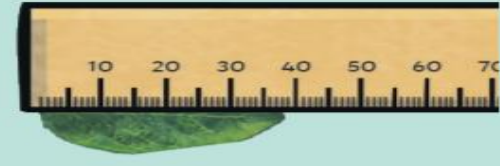
Measure Length



10mm = 1cm



4cm 6mm



38mm

Perimeter

..... = perimeter

5cm + 2cm + 5cm + 2cm = 14cm

3cm + 3cm + 3cm + 3cm + 3cm = 15cm

perimeter = 20cm
6cm + 6cm = 12cm
20cm - 12cm = 8cm
8cm ÷ 2cm = 4cm

6cm

Equivalent Length

100 centimetres = 1 metre

10 millimetres = 1 centimetre

317cm

300cm	17cm
3m	17cm
3m 17cm	

Conversion diagram:
 Millimetres (mm) → Centimetres (cm) (÷10)
 Centimetres (cm) → Metres (m) (÷100)
 Metres (m) → Centimetres (cm) (×100)
 Centimetres (cm) → Millimetres (mm) (×10)

Add and Subtract Lengths

14cm + 19cm = 33cm
8cm 2mm + 16mm = 98mm or 9cm 8mm

?	
8cm 2mm	16mm
82mm	16mm

6m - 2m 28cm
6m - 2m = 4m
4m - 28cm = 3m 72cm

6m	
2m 28cm	?

Compare lengths

6mm < 6cm
6cm = 60mm
6mm is shorter than 6cm

320cm > 2m 6cm
320cm > 200cm + 60cm
320cm is longer than 2m 60cm

98mm < 12cm 3mm
98mm < 120mm + 3mm
98mm is shorter than 12cm 3mm



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Maths: Spring Y3 Number

Fractions

Add and Subtract Fractions

$$\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$$



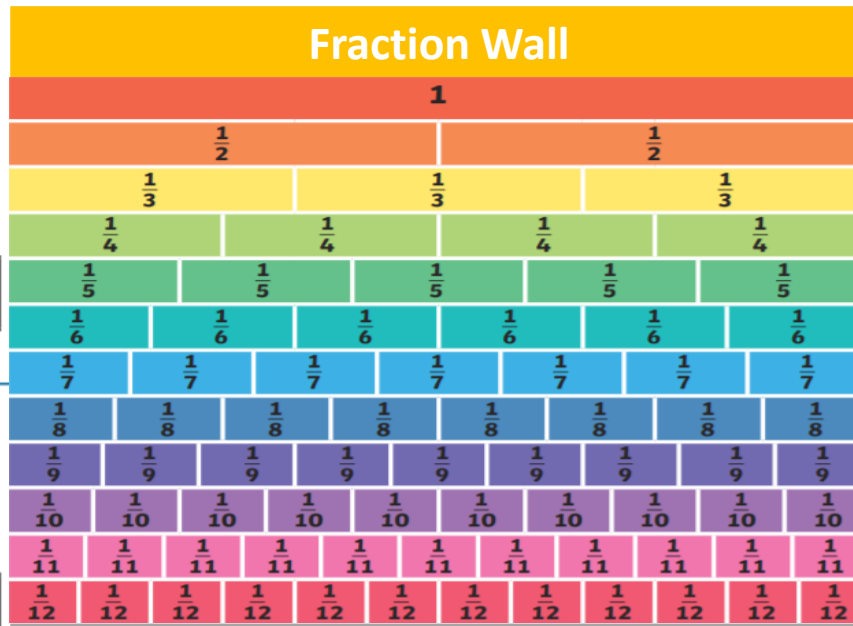
$$\frac{3}{7} + \frac{2}{7} = \frac{5}{7}$$



$$\frac{5}{6} - \frac{2}{6} = \frac{3}{6}$$



Fraction Wall



Fractions of Amounts

$$\frac{1}{4} \text{ of } 24 = 6$$



$$\frac{1}{3} \text{ of } 72 = 24$$



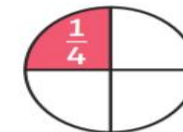
$$\frac{2}{5} \text{ of } 40 = 16$$



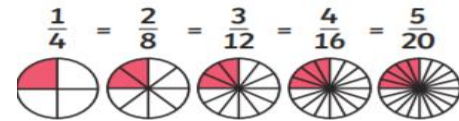
Key Vocabulary

Equivalent	Equal in value.	✓
Numerator	The number above the line in a fraction.	
Denominator	The bottom number in a fraction. Shows how many equal parts the item is divided into.	
Half/Halve	Share/divide in 2.	
Quarter	Share/divide in 4.	
Third	Share/divide in 3.	
Unit Fraction	The numerator is 1.	
Non-unit Fraction	The numerator is greater than 1.	
Decimal Tenths	One part of 10, 0.1	

Equivalent Fractions



is equal to...



Tenths

