The Four Operations in Year 6

Addition

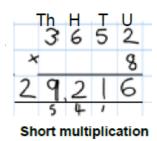
	2	3 •	3	6	1
		9 (0	8	0
+	5	9 (7	7	0
		1 •	3	0	0
	9	3 '	•5	1	1
	2	1	2		

	8	1	0	5	9	
		3	6	6	8	
	1	5.	3	0	ı	
+	2	0	,5	5	1	
1.	2	0	5	7	9	_
	- 1	ı	١	١		

Subtraction

	°X	" Z	Ø.	6	9	9		<i>'Y</i>	Jø	١5		3.K	4	9	kg
`				,9			_		3	6	٠	0	8		kg
		6	0	7	5	0			6	9	•	3	3	9	kg
															9

Multiplication



Multiplication of numbers with up to 2 decimal places

Long multiplication

Step 1 - Grid method

Step 2 - Short multiplication

	U		t	h
	3	•	1	9
×	8			
2	5		5	2
			7	

Division

Long division for dividing by 2-digits

Short division with remainders:

Useful list: 1x is 36 10x is 360 100x is 3600

$$\begin{array}{r}
 27 \\
 972 \\
 -720 = 36 \times 20 \\
 252 \\
 -180 = 36 \times 5 \\
 72 \\
 -72 = 36 \times 2
\end{array}$$

$$\begin{array}{r}
 28 \text{ r} \ 12 \text{ or } \frac{12}{15} \text{ or } \frac{4}{5} \\
 15 \overline{\smash{\big)}\ 432} \\
 \underline{-300} = 15 \text{ x} 20 \\
 132 \\
 \underline{-120} = 15 \text{ x} 8
\end{array}$$

Estimate Calculate Check it!

Year 6 Key Vocabulary

which can be represented in the shape of a square. A number that results from multiplying an integer by itself. It is also called perfect square. EXAMPLES: 4, 9, 16, 25, 36.

Cubed number: a number raised to the third power which is indicated by a small 3 to its upperright.



Square Number: It is a number Prime Number: A number that Composite Numbers: A num-

has exactly two factors. A number that can only be divided evenly by itself and one.

EXAMPLES: 2, 3, 5, 7, 11, 13, 17, 19.

Common Factors:

A whole number that divides two or more other numbers exactly.

ber with more than two factors.

```
1 = 16
16 = 1 \times 16
                 16 ÷
16 = 2 \times 8
                 16 \div 2 = 8
16 = 4 \times 4
                 16 \div 4 = 4
    16 is a composite number.
```

The factors of 16 are 1, 16, 2, 8, 4.

Common Multiples:

A multiple that is shared by two or more numbers.

12 is a common factor of 24, 48 and 72.

20 is a multiple of 2 and 10 because $20 = 2 \times 10$ 20 is a multiple of 4 and 5 because $20 = 4 \times 5$

20 is a common multiple of 2, 4, 5 and 10

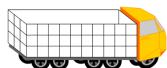
Equivalent:

Equivalent equations - Equations that have the same solution.

Equivalent Fractions: fractions with the same value.

Cubic Metres/Centimetres

A standard metric unit for measuring volume.



Circumference

The distance around a circle.

Quadrant:

ence.



Ratio

Percentage:

commonly a ratio is the comparison of two values of the same kind, which may be written as a to b,

expressed as a number out of 100

followed by the % symbol.

a:b or as a fraction a/b.

Radius:

The distance from the centre of a regular polygon to a vertex. The distance from the centre of a sphere to any point on its surface.

Parallel:

A quarter of a circle or its circumfer- Equidistant, that is, the same distance apart, never Any quarter of a plane divided by an touching.

Order of Operations:

A percent or percentage is a fraction The order in which mathematical operations should be done.

> Acrnoyms such as BODMAS may be used.

Algebra:

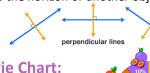
An area of mathematics where numbers and quantities called variables are represented by letters and symbols.

Diameter:

A straight line passing through the centre of circle to touch both sides of the circumference.

Perpendicular:

When two lines meet at right angles to the horizon or another object.



Mean:

Wednesday A type of average Thursday 31° Friday which is the 37° Saturday middle value of Sunday 224° Total: an ordered set of Divide 224° ÷ 7 data values. Mean: = 320

Monday

Tuesday

30°

Pie Chart:

A chart using a divided circle where each section represents a percentage of the total.

Average:

x and y axis.

An average is a measure used to find the location of the middle (central tendency) of a data set.