Time: Encourage your child to use a watch or clock to tell the time, provide timed activities and read timetables

Calendars: Plan family birthdays on a celender & do a birthday countdown.

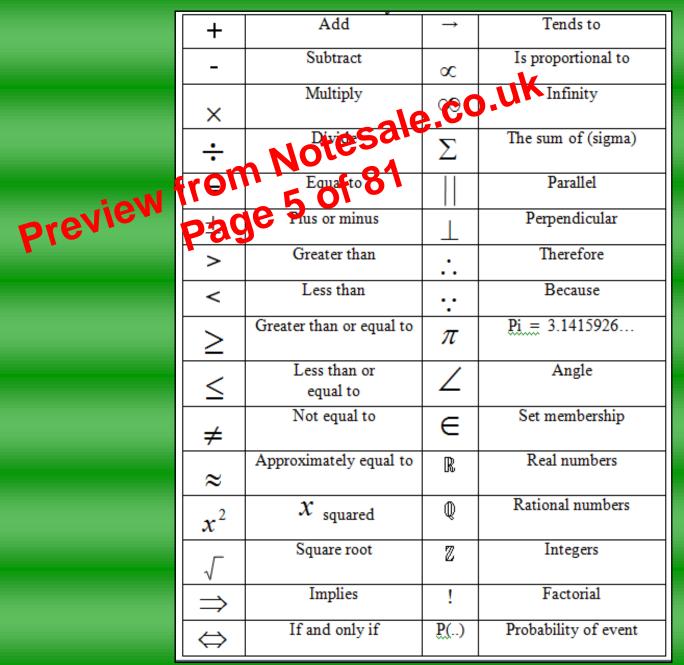
Measure: Teknadvantage 3f Gleasure opportunities in the kitchen; weightightiming and dealperature

Money: Talk about best deals with your child, budgeting pocket money or wages.

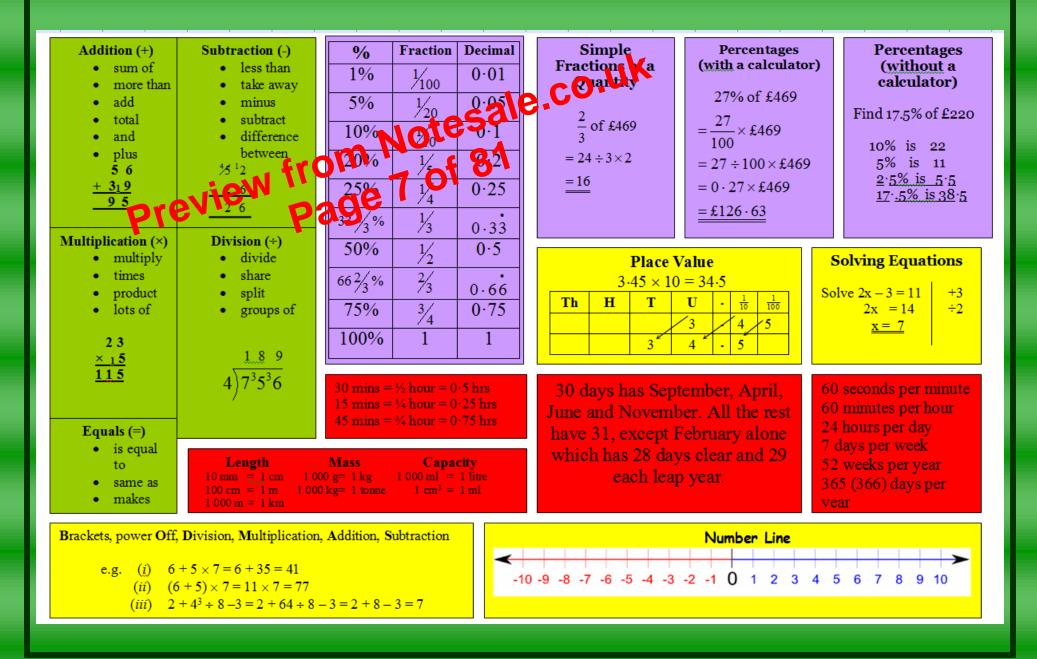
Estimating: plan for activities in advance like calculating the number of rolls of paper or paint required to decorate a room, the length of time activities may take.

Logical thinking: Ask your child to explain their thinking and consider consequences of actions. e.g. using the information gathered from reading newspapers, using the internet and watching TV to draw conclusions and make choices that involve numeracy.

MATHEMATICS SYMBOLS CHART

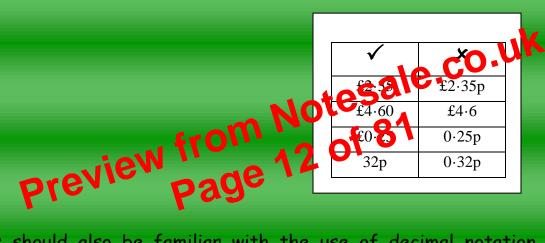


Extract from Pupil Planner Pages



Decimal Notation

All pupils should be familiar with decimal notation for money although they may use incorrect notation.



Pupils should also be familiar with the use of decimal notation for metric measures, but sometimes misinterpret the decimal part of the number. They may need to be reminded for example that 1.5 metres is 150 centimetres not 105 centimetres.

Pupils often read decimal numbers incorrectly e.g. 8.72 is often read as eight point seventy two instead of eight point seven two.

They may also have problems with comparing the size of decimal numbers and may believe that 2.36 is bigger than 2.8 because 36 is bigger than 8. If they need to compare numbers it may help to write all of the numbers to the same number of decimal places e.g. 2.36 and 2.80

ROUNDING ANSWERS

Pupils should round their answers to one more decimal place or significant figure rec Notesale.co.uk 75 forearest 10 → oft 81 496 to recest 10 → 500 Ig to nearest whole number / than the numbers in the question

Rounding to nearest 10

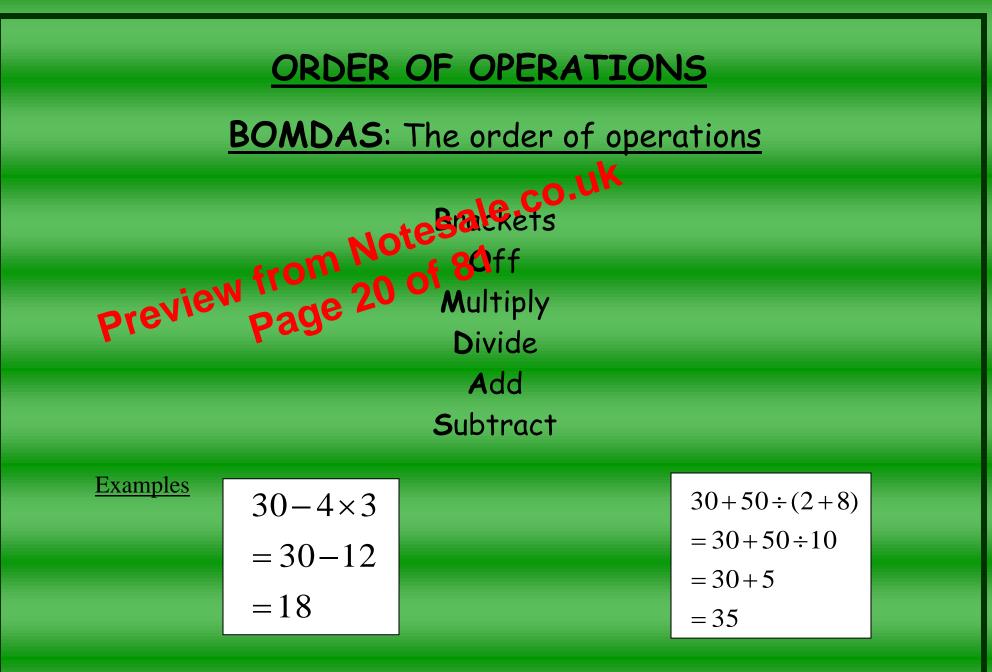
Rounding to nearest whole number/ten/hundred

237.8 \rightarrow 238 (to nearest whole number) \rightarrow 240 (to nearest 10) \rightarrow 200 (to nearest 100)

Rounding to 1 decimal place (to 1 d.p.)

5.31 \rightarrow 5.3 (to 1 d.p.) $11.97 \rightarrow 12.0$ (to 1 d.p.)

Rounding to more than 1 decimal place/to significant figures (to s.f.) $6.2459 \rightarrow 6.246$ (to 3 d.p) $\rightarrow 6.25$ (to 3 s.f)

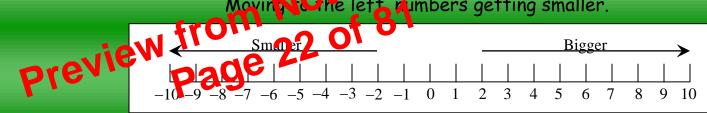


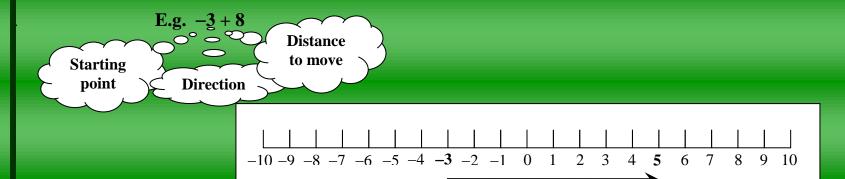
The important *facts* are that **brackets** are done first, then **powers**, **multiplication** and **division** and finally **addition** and **subtraction**.

INTEGERS (2)

Some pupils have problems understanding the size of negative numbers and believe that -10 (read as '*negative* 10') integer than -5.

A number line can be of help when ordering problems. Moving to the right, numbers getting bigger. Moving to the left numbers getting smaller.





Care should be taken with the use of language. 'Negative' is used as an adjective to describe the sign of the number. 'Minus' is used as a verb, indicating the operation of subtraction.

Ratio and Proportion (2)

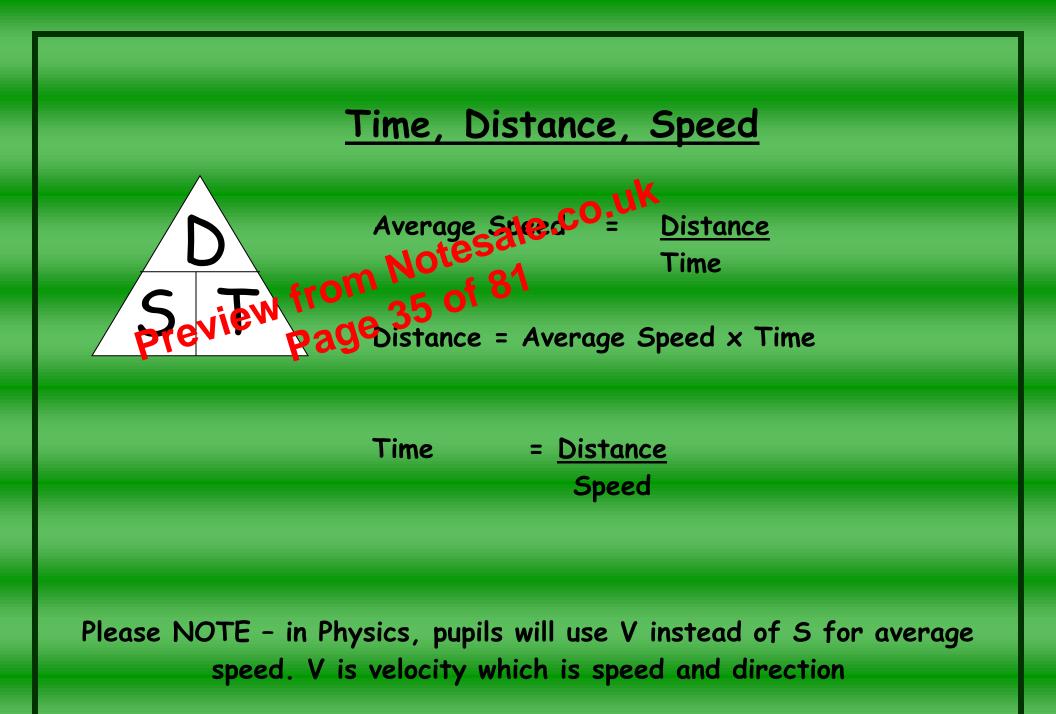
If sharing money in given ratios pupils must:

- CO.UK Calculate the number of shares besiding the parts of the ratio together.
 Divide the given quantity by the number of shares to find the value of one share.
- Multiply each carlo by the value of one share to find how the money has been split.

Example £35 is split between Jack and Jill in the ratio 3:2. How much does Jack receive and how much does Jill receive?

Solution	Number of shares	= 2 + 3	= 5
	value of 1 share	= £35÷5	= £7
	Jack's share	= 2 x £7	= £14
	Jill's share	= 3 × £7	= £ 21.

(Check by adding the value of the shares $\pounds 14 + \pounds 21 = \pounds 35$)



Algebra - Solve Simple Equations

where the method is written, as in the examples below. It is useful to use scales like the ones below to introduce this method as pupils can visibly see how the equation can be alled to use scales like the ones below to introduce this method as pupils can visibly see how the equation can be alled to use scales like the ones below to introduce this are the one of the equation of the equation 3x + 2 = 8 See example 4 below The method used for solving equations is balancing. Each equation should be set out with a line down the right hand side



Example 1: Solve x + 5 = 8

$$\begin{array}{c|c} x+5=8 \\ \underline{x=3} \\ \hline \end{array} \quad -5 \text{ from both sides} \end{array}$$

In the example shown pupils must state that they will "subtract 5 from both sides." If they only say, "Subtract five," ask them, "Where from?" and encourage them to tell you, "Both sides," on every occasion.

Pupils should be encouraged to check their answer mentally by substituting it back into the original equation.

Algebra - Solve Inequations

Terminology



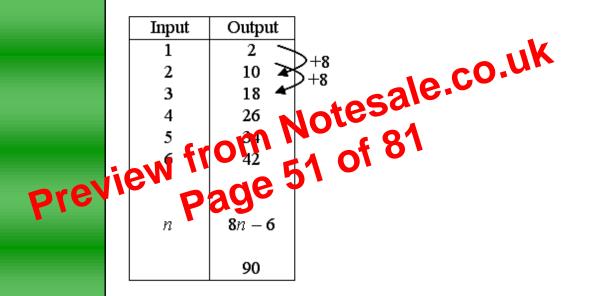
Example 1:

Solve the inequation x + 3 > 6 choosing solutions from $\{0, 1, 2, 3, 4, 5, 6\}$

x+3>6 | -3 from both sides x > 3 $x = \{4, 5, 6\}$

Example 3:

For the following sequence find the term that produces an output of 90.



We go through the same process as before to find the n^{th} term, which is 8n - 6.

Now we set up an equation.

Therefore the 12th term produces an output of 90.

Drawing a Line of Best Fit

A line of best fit can be drawn to data that shows a correlation. The stronger the correlation between the data, the easier it is to draw the line. The line should go through the mean point and should have approximately the same number of data points on either side.

