

Time	How many minutes is there in a week?	How many days between 15 th June and the 3 rd September?	How many seconds in three days?	Change 20:47 into 12 hour clock.	I arrived at 12:37; stayed for 73 minutes and walked home after a 38 minute walk. What time did I get home?
Expressions	A right-angled triangle has an angle that is three times the size of the other. Write an expression to calculate each of the angles.	h trucks each carry a load of 44 tons and c cars carry 1.5 tons. Write an expression for their total load.	k people have 3 rulers and 4 pencils. Write an expression for the total number of pencils and rulers.	w ducks have 8 ducklings. Write an expression for the total number of ducklings.	k people earn £125 per day. Write an expression for the total amount earned.
Fractions and decimals	Convert 0.45 into a percentage and a fraction in its simplest form.	Convert 65% into a decimal and a fraction in its simplest form.	Convert 7% into a decimal and a fraction in its simplest form.	Convert $\frac{3}{5}$ into a decimal and a percentage.	Convert $\frac{7}{20}$ into a decimal and a percentage.
Estimation	Estimate: $\frac{3.835 \times 192}{7.92 \times 8.2}$	Estimate: $\sqrt{61}$	Estimate: $\frac{5.92 \times 6.13}{3.25 \times 6.2}$	Estimate: $\frac{71.04 \times 101}{468.9 \div 8.342}$	Estimate: $\sqrt{80}$
Unit conversion	How many km is 154,894 cm?	How many grams is 2.53kg?	How many mm is 9.3m?	How many mm is 38 cm	How many km is 12 m?



Fractions	$\frac{3}{8}$ of 128	$\frac{3}{10} \times \frac{15}{24}$	$14\frac{2}{5} \div \frac{9}{10}$	$\left(\frac{7}{8}\right)^2$	$\left(\frac{4}{9}\right)^{-2}$
Indices	$x^7 \times x^5$	$x^{12} \times x^{-23}$	$x^6 \div x^{-6}$	$x^{11} \div x^7$	$x^{13} \div x^9$
Algebraic Expansions	$7e \times 4f \times e =$	$9t \times 6t^{-1} =$	$5 \times 3y \times 7y =$	$5kt(8 - 4k) =$	$\frac{7(4x + 8)}{2} =$
Long multiplication	57×67	2.14×8	15.91×43	2.45×7.8	9.34×5.64
Equations	Area of a triangle?	Area of a circle?	Area of a parallelogram?	Distance speed time calculations. Find speed?	Area of a trapezium?



Division	$52488 \div 6$	$3.23415 \div 9$	$3003 \div 7$	$\underline{\quad} \div 8 = 38.1$	$\underline{\quad} \div 21 = 32.7$
Name the line	Line that splits a circle into two segments.	Line that runs from circumference to circumference going through the centre.	Line that runs at 90° to the tangent that touches the circumference at the same point.	Line running vertically through $x=0$.	Line that touches the circumference at one point only.
Ratio Value of one part	52 is shared in the ratio 3:4:6	81 is shared in the ratio 8:9:1:4:5	240 is shared in the ratio 1:3:4	Put 6:15 in the form 1:n	Put 4.5: 2.25 in the form n:1
Addition and Subtraction	Find the total of 604, 483 and 703.	Find the sum of 86, 87 and 58.	Find the difference between 135 and 8520	Find the range in the following data: 5, -7, 9, -6, $-\frac{16}{3}$	Find the difference between 11^2 and the $\sqrt{1600}$
Substitution	$x = -5, y = 3$ What is $3x + 4y$?	$x = 7, y = 5$ What is $6x - y$?	$x = 16, y = -2$ What is $7x - 8y$?	$x=8, y=3, z=4$ What is $x^2 + 2y^z$?	$x=11, y=6$ What is $\frac{3x}{y} + 4y$?

