

Time	How many hours is 420 minutes?	How many minutes is three and a half hours?	How many minutes between 9:35 am and 1:15 pm?	Change 14:35 into the 12 hour clock.	How many days between 3 rd July and 25 th September?
Expressions	c cars have four people in each one. Write an expression for the total number of people.	h trucks each carry a load of 44 tons. Write an expression for their total load.	p people each have 5 pencils. Write an expression for the total number of pencils.	w ducks have 8 ducklings. Write an expression for the total number of ducklings.	k people earn £130 per day. Write an expression for the total amount earned.
Fractions and decimals	Convert 0.73 into a percentage and a fraction in its simplest form.	Convert 35% 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 $\frac{3}{20}$ into a decimal and a percentage.
Estimation	Estimate: $\frac{12.94 \times 6.92}{4.74 \times 3.2}$	Estimate: $\sqrt{94}$	Estimate the number of metres across the classroom	Estimate: $\frac{6042 \times 351}{42 \div 5.342}$	Estimate: $\sqrt{50}$
Unit conversion	How many seconds in three hours?	How many grams is 23.8kg?	How many mm is 4.25m?	How many mm is 362.98 cm	How many km is 349 m?

Fractions	$\frac{3}{5}$ of 640	$\frac{3}{4} \times \frac{7}{12}$	$3\frac{1}{2} \div \frac{2}{5}$	$\left(\frac{3}{4}\right)^2$	$\left(\frac{3}{8}\right)^{-2}$
Indices	$x^2 \times x^4$	$x^3 \times x^{-4}$	$x^3 \div x^5$	$x^7 \div x^3$	$x^8 \div x^{-3}$
Algebraic Expansions	$e \times e \times 3e =$	$3t \times 4t^3 =$	$5 \times 4t \times 3y =$	$3k(7 - 2k) =$	$\frac{3(10x + 5)}{5} =$
Long multiplication	231×42	472×83	496×53	385×3.2	4.2×7.5
Equations	Area of a circle?	Area of a triangle?	Area of a rectangle?	Distance speed time calculations. Find time?	Circumference of a circle?

Division	$4821 \div 3$	$8373 \div 9$	$16.842 \div 6$	$\underline{\hspace{1cm}} \div 7 = 15.4$	$\underline{\hspace{1cm}} \div 38 = 325$
Name the line	Line that runs from the centre to the edge of a circle?	Line that runs from circumference to circumference without going through the centre?	Line running round the outside of a polygon.	Line running perpendicular to the x- axis through the origin.	Line that touches a circle at one point only.
Ratio Value of one part	72 is shared in the ratio 3:5:4	85 is shared in the ratio 2:3	104 is shared in the ratio 9:8:7:2	Put 3:10 in the form 1:n	Put 6.25:2.25 in the form n:1
Addition and Subtraction	Find the total of 83, 89, 83 and 59	Find the sum of 84, 25, 39, 90 and 74	Find the difference between 839 and 317	Add together 3, 8, 31, 75, 38, 72 and 291	Find the difference between 9^3 and the $\sqrt{256}$
Substitution	$x = 12, y = 8$ What is $3x + 4y$?	$x = -4, y = 5$ What is $6x - y$?	$x = 25, y = -3$ What is $7x + 8y$?	$x=5, y=8, z=3$ What is $x^2 + 2y^z$?	$x=8, y= 12$ What is $\frac{3x}{y} + 4y$?