Factorise $5x^2 + 20xy$.	Decrease £650 by 20%.	Expand and simplify $(x - 2)(x - 5)$.	Simplify $(5x^4 \times 3x^8)^2$.
Ben and Tyrell share some money in the ratio 2 : 3. Ben gets £15. How much does Tyrell get?	I scored 24 out of 40 on a test. What's that as a percentage?	Factorise $x^2 - 81$.	Lucy flips two fair coins. What's the probability she gets two tails?
500mm + 600cm + 2km Answer in metres.	Work out the interior angle of a regular octagon.	Write 180 as a product of prime factors.	It costs £150 to buy 9 games. How much does it cost to buy 12 games?

Multiply 2 × 10 ⁵ by 7 × 10 ⁸ . Give your answer in standard form.	Solve $x^2 + 6x = 0$.	Find the value of $27^{\frac{1}{3}}$.	If a man walks 1.3km in 15 minutes, what is his average speed in km/h?
Find the length of the edge of a cube which has surface area 54 <i>cm</i> ² .	Solve $15 \le 3 + 6x$ and show your answer on a number line.	Find the area of this trapezium. $6 \text{ cm} \rightarrow$ $8 \text{ cm} \rightarrow$ $14 \text{ cm} \rightarrow$	Find the volume of a cylinder with radius 4cm and height 10cm. Give an exact answer.
Write 3 : 7.5 in the ratio 1 : n.	What's the lowest common multiple of 36 and 48?	What's the gradient of the straight line with equation $2y = 5 - 6x$?	

What's the bearing of	Find the value of	ABCDEF is a regular hexagon	Factorise
X from Y?	$\left(\sqrt{8}+\sqrt{18}\right)^2$	centre O.	$2x^2 - 7x - 15.$
X 55° Y		F O C	
Find the perimeter of the	Find angle <i>a</i> and give	E D	$f(x) = 4x^2$ $g(x) = x + 1$
quarter circle. Give an	reasons.	Express FD in terms of	g(x) = x + 1
exact answer.	7750	a and b.	Find <i>gf</i> (—3).
	(a\	Find the value of a and b :	Find the nth term of the
6cm		$x^{2} + 2x + 8 \equiv (x + a)^{2} + b$	sequence:
			5, 18, 35, 56, 81,

Rationalise and simplify $\frac{4 + \sqrt{2}}{\sqrt{8}}.$	Simplify $\frac{x^2 - 16}{9x - 6} \div \frac{x + 4}{15x - 10}$	Write down the equation of the circle with centre (0,0) and radius 1.5.	Evaluate 2 <i>cos</i> 60 – <i>sin</i> 90 + 3 <i>tan</i> 45.
Find the equation of the line perpendicular to y = 2x + 7 which goes through the point (4, 6).	Write $\frac{1}{8} \times 32^{0.5}$ as a power of 2.	Find angle ACB.	Solve the simultaneous equations: $y = x^2 - x - 6$ $y = 6 - 2x$

Factorise $5x^2 + 20xy$.	Decrease £650 by 20%.	Expand and simplify	Simplify $(5x^4 \times 3x^8)^2$.
5x(x+4y)	£520	(x-2)(x-5).	$225x^{24}$
		$x^2 - 7x + 10$	
Ben and Tyrell share	I scored 24 out of 40 on a	Factorise	Lucy flips two fair coins.
some money in the ratio	test. What's that as a	$x^2 - 81.$	What's the probability
2 : 3. Ben gets £15. How	percentage?		she gets two tails?
much does Tyrell get?		(x+9)(x-9)	
£22.50	60%		0.25
500mm + 600cm + 2km	Work out the interior	Write 180 as a product of	It costs £150 to buy 9
	angle of a regular	prime factors.	games. How much does
Answer in metres.	octagon.		it cost to buy 12 games?
2006.5 <i>m</i>	135 ⁰	$2^2 \times 3^2 \times 5$	£200

Multiply	Solve $x^2 + 6x = 0$.	Find the value of $27^{\frac{1}{3}}$.	If a man walks 1.3km in
2×10^5 by 7 $\times 10^8$.			15 minutes, what is his
Give your answer in	x = 0 or x = -6	2	average speed in km/h?
standard form.		3	
			5.2 <i>km/h</i>
1.4×10^{14}			
Find the length of the	Solve $15 \le 3 + 6x$ and	Find the area of this	Find the volume of a
edge of a cube which	show your answer on a	trapezium. <mark>80<i>cm</i>²</mark>	cylinder with radius 4cm
has surface area $54 cm^2$.	number line.	← 6 cm →	and height 10cm. Give
	$x \ge 2$	8 cm	an exact answer.
3 <i>cm</i>			$160\pi \ cm^2$
		↓ 14 cm →	
Write 3 : 7.5	What's the lowest	What's the gradient of the	
in the ratio 1 : n.	common multiple of 36	straight line with equation	
	and 48?	2y = 5 - 6x?	
1: 2.5	144	-3	



