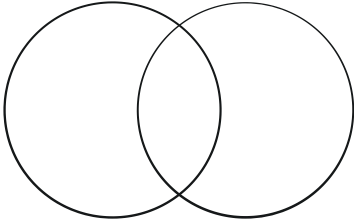
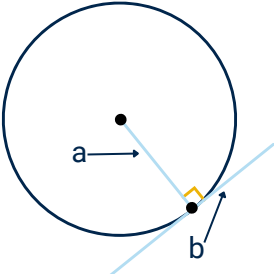
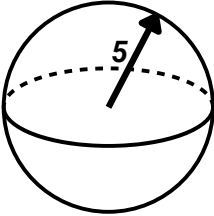
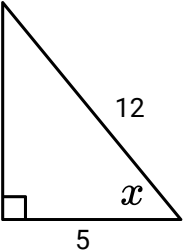
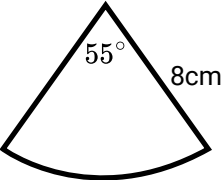
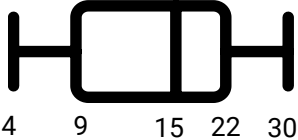
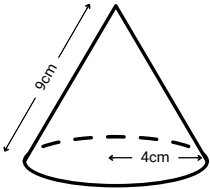




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M3



Match the statements Expression $10x + 6 = 46$ Equation $3x + 5$ Identity $5x + 20 = 5(x + 4)$	Expand and simplify: $(x + 4)(x + 7)$	Factorise $x^2 + 9x + 20$	Find the LCM of 24 and 36 using product of primes. 
In a sale, a TV is reduced to £540 after a 10% discount. Find the original price.	A force of 240N acts on an area of 12m^2 Calculate the pressure.	Name the parts of the circle marked 	Find the surface area of a sphere of radius 5cm. 
Calculate the value of angle x. 	Find the area of the sector 	Find the lower quartile and upper quartile from the box plot. 	Find the curved surface area of the cone. 

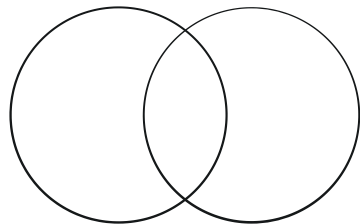
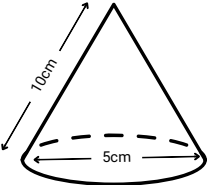
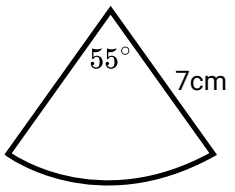




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M3



The line $y=3x-4$ is parallel to line L Line L passes through the point $(2,5)$. Find the equation of line L.	Expand and simplify: $(2x - 4)(x + 5)$	Factorise: $x^2 - 3x - 28$	Find the HCF of 72 and 120 using product of primes. 
A ladder leans against a wall. The ladder is 7m long and makes an angle of 68° with the ground. Calculate how high up the wall the ladder reaches.	A vase rests on a table. The circular base of the vase has radius 4cm. The weight of the vase exerts a force of 160N. Calculate the pressure on the table. 	A length is measured as 8.4cm to 1 decimal place. Write down the lower bound and upper bound.	Find the total surface area of the cone. 
Factorise fully $x^2 - 64$	Find the arc length of the sector. 	Solve $\frac{3x - 2}{4} = x - 5$	Simplify: $\frac{4a}{7} - \frac{a}{14}$

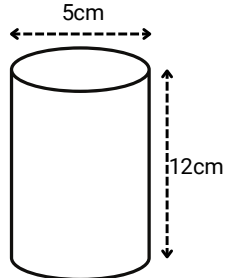
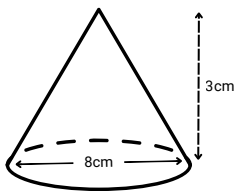
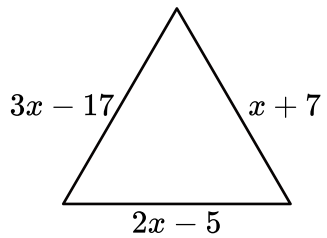




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M3



The line $2y+6x =14$ is parallel to line L. Line L passes through the point $(3,-2)$ Find the equation of line L.	Expand and simplify: $(2x - 4) (x + 3) + 4x$	Solve: $x^2 - 7x + 12 = 0$	A cylinder has a base radius of 5cm and a height of 40cm. The curved surface area of this cylinder is the same as the surface area of a sphere. What is the radius of the sphere.																		
A kite is flying on a string 18m long. The string makes an angle of 52° with the ground. Calculate the height of the kite above the ground.	Simplify fully: $\frac{x^2 + 7x}{x^2 + 3x - 28}$	Calculate the total surface area of the cylinder. 	Find the total surface area of the cone. 																		
Solve the equation: $\frac{2x + 3}{5} + \frac{x - 1}{2} = 10$	The diagram shows an equilateral triangle. Form and solve an equation to calculate the perimeter of the triangle. 	Simplify fully: $\frac{a + 4}{12} \div \frac{a^2 + 4a}{18}$	Complete the cumulative frequency table <table><tr><th>Time t minutes</th><th>Frequency</th><th>Cumulative Frequency</th></tr><tr><td>$0 < t \leq 10$</td><td>6</td><td></td></tr><tr><td>$10 < t \leq 20$</td><td>12</td><td></td></tr><tr><td>$20 < t \leq 30$</td><td>18</td><td></td></tr><tr><td>$30 < t \leq 40$</td><td>9</td><td></td></tr><tr><td>$40 < t \leq 50$</td><td>5</td><td></td></tr></table>	Time t minutes	Frequency	Cumulative Frequency	$0 < t \leq 10$	6		$10 < t \leq 20$	12		$20 < t \leq 30$	18		$30 < t \leq 40$	9		$40 < t \leq 50$	5	
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