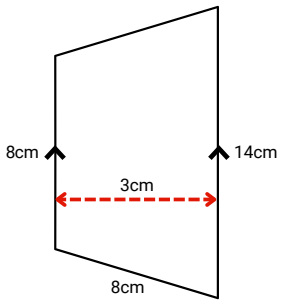
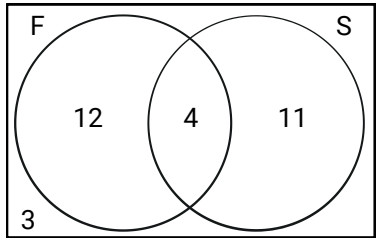




CCEA GCSE Maths Revision Mat

M2



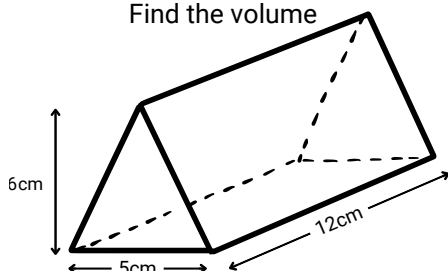
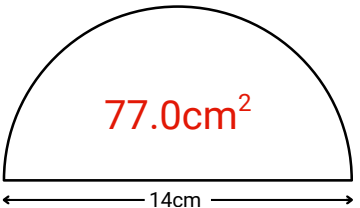
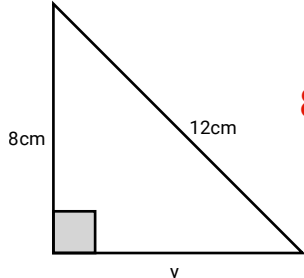
Write 180 as a product of prime factors (leave in index form) $2^2 \times 3^2 \times 5$	Round 48596 to 2 significant figures 49000	Work out $\frac{3}{5} \times \frac{2}{9}$ $\frac{2}{15}$	A jacket costs £80. In a sale, the price is reduced by 12.5%. What is the new price of the jacket? £70
12, 28, 13, 42, 19 From the list of numbers, find the: Mean = 22.8 Median = 19 Range = 30	Find the area:  33cm²	Expand: $3(x + 4)$ $3x + 12$ $4(y - 5)$ $4y - 20$ $x(x + 2)$ $x^2 + 2x$	Factorise: $5x + 15$ $5(x + 3)$ $60y - 84$ $12(5y - 7)$ $x^2 - 9x$ $x(x - 9)$
Solve: $3x + 7 = 25$ 6	From the Venn Diagram, how many students study French (F) ? 16 	£500 is invested for 2 years at 3.5% simple interest per year. How much money will be in the account at the end of 2 years? £535	Solve: $4x + 9 = 2x + 21$ 6



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M2



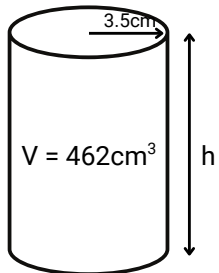
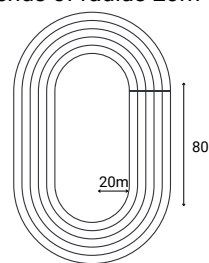
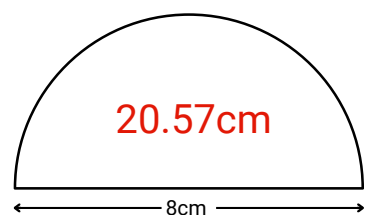
Write 90 as a product of prime factors. Hence find the smallest number that 90 must be multiplied by to make a square number. $90 = 2 \times 3^2 \times 5$ 10	The price of a bike increases from £240 to £276. Find the percentage increase 15%	Find the volume  180cm^3	Find the gradient of the line joining: (3,2) and (7,10) 2										
Find the mean number of goals scored. <table border="1" data-bbox="165 780 389 987"><thead><tr><th>Goals</th><th>Frequency</th></tr></thead><tbody><tr><td>0</td><td>3</td></tr><tr><td>1</td><td>8</td></tr><tr><td>2</td><td>6</td></tr><tr><td>3</td><td>3</td></tr></tbody></table> 1.45	Goals	Frequency	0	3	1	8	2	6	3	3	A bottle contains $\frac{3}{4}$ litre of juice. Sam drinks $\frac{2}{3}$ of the bottle. How much juice does he drink? $\frac{1}{2}$	Expand and simplify : $2(x - 4) + 3(x + 8)$ $5x + 16$	The density of a metal block is 7.5g/cm^3. The mass of the block is 90g. Find the volume of the block. 12cm^3
Goals	Frequency												
0	3												
1	8												
2	6												
3	3												
Find the area of the semi circle  77.0cm^2	£800 is invested for 3 years at 5% compound interest per year. Calculate the value of the investment after 3 years. £926.10	Find y  8.94cm	Find the midpoint of the line joining: (2,5) and (8,11) (5,8)										



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M2



Calculate h  $V = 462\text{cm}^3$ 12cm	A metal cube has side length 3cm. The mass of the cube is 216g. Calculate the density of the metal. 8g/cm^3	Find the length of the line joining: (-3, 4) and (5,-2) 10	A running track consists of: - two straight sections, 80m long - two semi circular ends of radius 20m Calculate the distance around the inside lane.  285.7m																			
Estimate the mean height <table><tr><th>Height h cm</th><th>Frequency</th></tr><tr><td>$140 < h \leq 150$</td><td>6</td></tr><tr><td>$150 < h \leq 160$</td><td>14</td></tr><tr><td>$160 < h \leq 170$</td><td>12</td></tr><tr><td>$170 < h \leq 180$</td><td>8</td></tr></table> 160.5cm	Height h cm	Frequency	$140 < h \leq 150$	6	$150 < h \leq 160$	14	$160 < h \leq 170$	12	$170 < h \leq 180$	8	The perimeter of a rectangle is 42cm. The length is $(3x+2)\text{cm}$ and the width is $(x-1)\text{cm}$. Form an equation and solve it to find x. $8x + 2 = 42$ $x = 5$	Expand and simplify : $-3(x - 4) + 2(5 - x)$ $-5x + 22$	Calculate the combined mean score. <table><tr><th>Class</th><th>Number of Students</th><th>Mean Score</th></tr><tr><td>10 A</td><td>24</td><td>68</td></tr><tr><td>10 B</td><td>16</td><td>75</td></tr></table> 70.8	Class	Number of Students	Mean Score	10 A	24	68	10 B	16	75
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Class	Number of Students	Mean Score																				
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Find the perimeter of the semi circle  20.57cm	£1200 is invested for 3 years. - Bank A offers 4% simple interest per year - Bank B offers 4% compound interest per year. Calculate how much more is in Bank B after 3 years. £5.84	A ladder 5m long leans against a wall. The bottom of the ladder is 1.2m from the wall. How high up the wall does the ladder reach? 4.85m	Find the midpoint of the line joining: (-2,5) and (1,-9) $(-0.5, -2)$																			