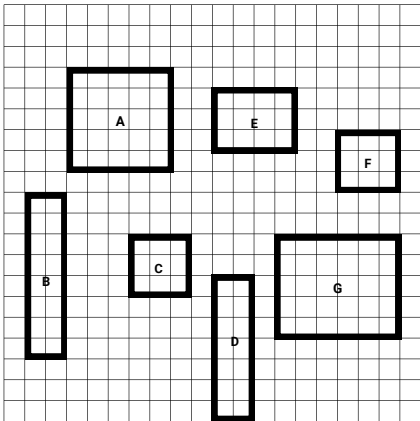
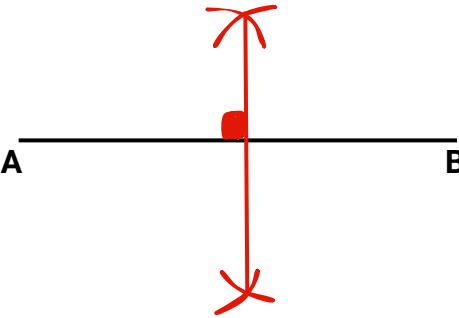
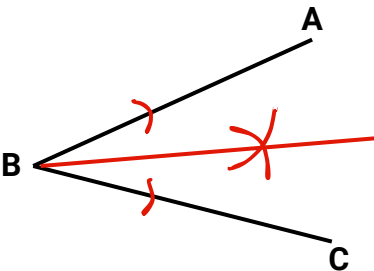




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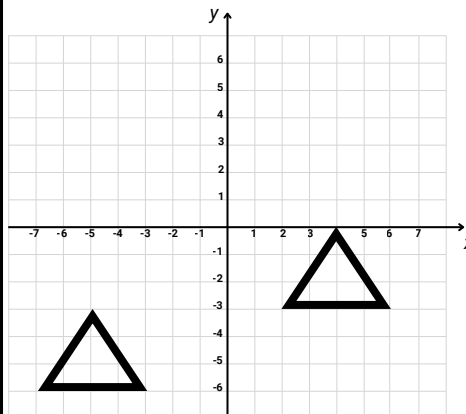
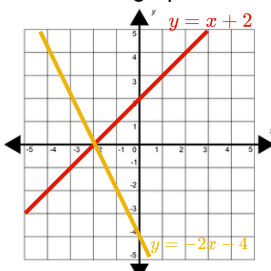
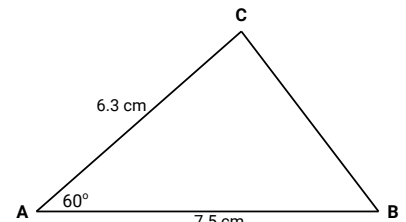
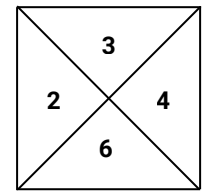
Convert these binary numbers to denary 1011 11 11011 27 10101011 171	Simplify $x^2 \times x^7$ x^9 $\frac{y^9}{y^3}$ y^6 $(x^4)^3$ x^{12}	A bus is late 12 times out of 60 journeys. Find the relative frequency. $\frac{12}{60} = \frac{1}{5} = 0.2$	Find the nth term of: (a) 5, 8, 11, 14 $3n + 2$ (b) 21, 17, 13, 9 $-4n + 25$
At the LEGO store, Niamh buys 188 LEGO bricks. Each brick costs 49p Estimate the total cost of the bricks. £100	Solve the inequalities. $3x < 15$ $x < 5$ $4x - 5 \geq 23$ $x \geq 7$	Make x the subject of the formula: $y = x - 3$ $x = y + 3$ $2x + 9 = y$ $x = \frac{y - 9}{2}$	Which two shapes are congruent?  C and F
Given $726 \times 4 = 2904$, work out: 7.26×4 29.04 363×4 1452	Construct the perpendicular bisector 	Construct the angle bisector 	



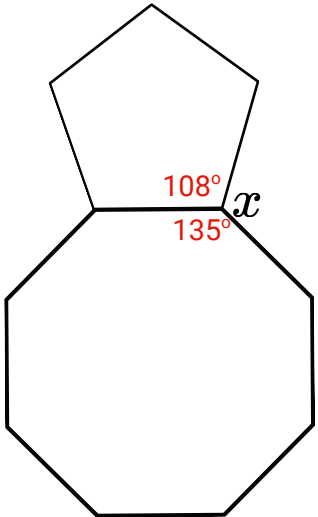
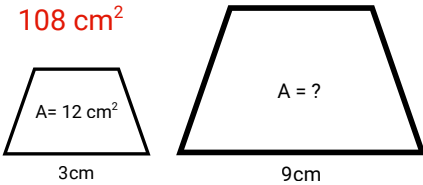
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Convert these denary numbers to binary. 15 1111 22 10110 34 100010	Simplify $\frac{y^9 \times y^2}{y^3}$ y^8 $3x^2 \times 5x^4$ $15x^6$	Find the relative frequency of choosing a red marble for Sophie. $\frac{3}{8}$ <table><tr><td></td><td>Number of trials</td><td>Number of red marbles chosen</td></tr><tr><td>Liam</td><td>25</td><td>10</td></tr><tr><td>Sophie</td><td>80</td><td>30</td></tr></table>		Number of trials	Number of red marbles chosen	Liam	25	10	Sophie	80	30	Find the 100th term in the sequence: (a) 4, 7, 10, 13, 16 301 (b) 9, 15, 21, 27, 33 603
	Number of trials	Number of red marbles chosen										
Liam	25	10										
Sophie	80	30										
Estimate the value of: $\frac{46 \times 21}{0.48}$ $= \frac{50 \times 20}{0.5} = 2000$	Solve the inequality: $3x - 5 \geq 23 - x$ $x \geq 7$	Make x the subject of the formula: $y = \frac{x + 4}{3}$ $x = 3y - 4$	Describe the transformation shown. Translation 9 right and 3 up 									
Solve the simultaneous equations using the graph.  (-2,0)	On a separate page, using a ruler and compasses only, construct an accurate drawing of triangle ABC. 	A fair spinner has four sections. The spinner is spun twice. The two numbers are multiplied together to get a final score. 4,6,8,9,12,16,18,24,36  List all the possible final scores.										



The binary number 10011 is added to the denary number 25. Give your answer as a binary number. 101100	Simplify $\frac{12a^5b^2}{3ab}$ $4a^4b$ $(x^2)^4 \div x^3$ x^5	A bag contains 200 marbles altogether. Estimate how many red marbles are in the bag. 75 <table><tr><td></td><td>Number of trials</td><td>Number of red marbles chosen</td></tr><tr><td>Liam</td><td>25</td><td>10</td></tr><tr><td>Sophie</td><td>80</td><td>30</td></tr></table>		Number of trials	Number of red marbles chosen	Liam	25	10	Sophie	80	30	7, 11, 15, 19 Is 203 a term in the sequence? Show your working. $4n+3=203$ $4n=200$ $n=50$ Yes, it is the 50th term.
	Number of trials	Number of red marbles chosen										
Liam	25	10										
Sophie	80	30										
Estimate the value of: $\frac{5.6 \times 19.7}{0.21}$ $= \frac{6 \times 20}{0.2} = 600$	Solve the inequality: $2(x-3)+5>3x-7$ $x<6$	Make x the subject of the formula: $y=\frac{2x-5}{4}$ $x=\frac{4y+5}{2}$	A regular pentagon and a regular octagon share a side as shown below. Find the size of angle x. 117° 									
Each interior angle of a regular polygon is 156° How many sides has the polygon? 15 sides	The two trapeziums are similar. The area of the smaller trapezium is 12cm². Work out the area of the larger trapezium. 108 cm² 	Olivia, Ben and Callum shared some money in the ratio 3:5:9. Callum got £24 more than Olivia. Work out the total amount of money they shared. £68										