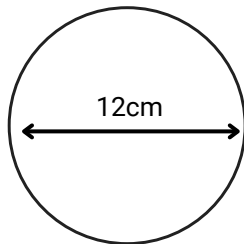
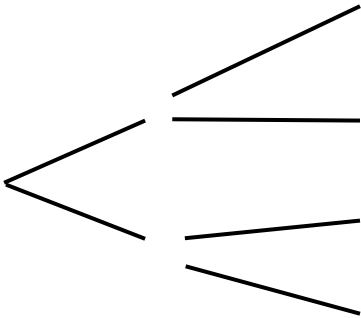
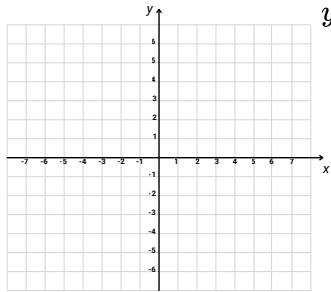




CCEA GCSE Maths Revision Mat

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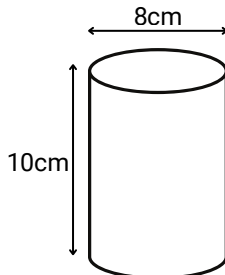
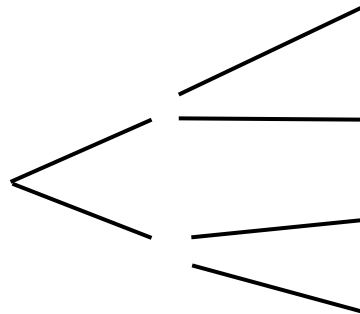
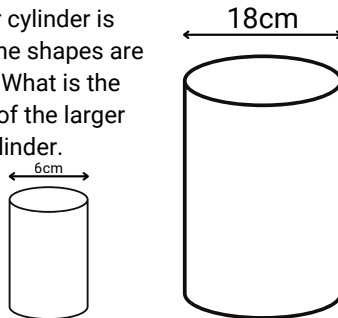


Solve: $2x + 9y = 69$ $x + 3y = 24$	Simplify: $x^{-3} \times x^7$ $\frac{y^5}{y^{-2}}$	At a sports day, students must choose: • one track event • one field event How many different combinations are possible? <u>Track:</u> 100m, 400m, 800m, 1500m <u>Field:</u> Long Jump, Hammer, Shot, Javelin	Find the area of the circle. Give your answer in terms of π. 
Find the nth term of: 2, 8, 18, 32, 50	Make x the subject of the formula: $y = \sqrt{3x + 5}$	Write the following in standard form: 540000 0.0072 820700 0.000405	A football team takes two penalties. The probability of scoring a penalty is $\frac{1}{4}$. Each penalty is independent. Complete the tree diagram. 
Write the following as an ordinary number: 3.6×10^4 9.1×10^{-3} 4.01×10^{-4} 7.85×10^6	A quantity a is directly proportional to b. When $a = 18$, $b = 4$. Find: 1. an equation connecting a and b. 2. the value of a when $b = 10$.	Indicate the region satisfying $x \geq 2$ and $y \leq 1$ 	

Answers

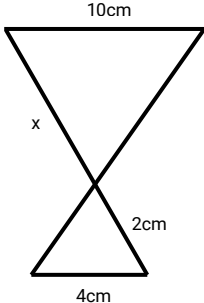
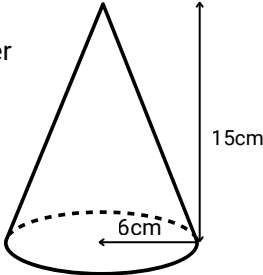
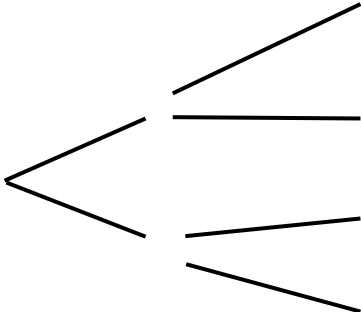
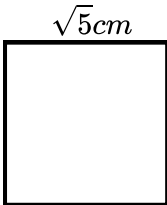




Solve: $2x + 3y = 12$ $5x - 2y = 11$	Simplify: $\frac{4b^{-2}}{2b^{-3}}$ $2x^{-2} \times 3x^5$	Complete the reciprocal graph table for $y = \frac{8}{x}$ <table><tr><td>x</td><td>0.2</td><td>0.25</td><td>0.5</td><td>1</td><td>2</td><td>4</td><td>8</td><td>16</td><td>32</td></tr><tr><td>y</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	x	0.2	0.25	0.5	1	2	4	8	16	32	y										Find the nth term of: $\frac{3}{10}, \frac{5}{20}, \frac{7}{30}, \frac{9}{40}$
x	0.2	0.25	0.5	1	2	4	8	16	32														
y																							
A is directly proportional to the square of b. When $b = 3$, $A = 45$. Find: - an equation connecting A and b. - the value of A when $b = 7$	Find the volume of the cylinder. Give your answer in terms of π. 	Calculate. Leave your answer in standard form. $(2 \times 10^3) \times (4 \times 10^5) =$ $\frac{9 \times 10^7}{3 \times 10^2} =$	A basketball player takes two free throws. The probability that the player scores a free throw is $\frac{3}{4}$. Each throw is independent. By completing the tree diagram, work out the probability that the player scores exactly one free throw. 																				
Calculate. Leave your answer in standard form. $(4 \times 10^5) + (2 \times 10^3) =$ $(9 \times 10^6) - (2 \times 10^4) =$	At a cinema, 3 adult tickets and 2 child tickets cost £29.50. 5 adult tickets and 4 child tickets cost £52.50 Find the cost of: - one adult ticket - one child ticket.	The volume of the smaller cylinder is 20cm^3. The shapes are similar. What is the volume of the larger cylinder. 																					





Solve: $3x + y = 39$ $2y = x + 1$	Complete the table of values for $y = x^3 - 2x + 1$ <table border="1"><tr><td>x</td><td>-3</td><td>-2</td><td>-1</td><td>0</td><td>1</td><td>2</td><td>3</td></tr><tr><td>y</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	x	-3	-2	-1	0	1	2	3	y								Work out the length of x. 	Find the nth term of: $\frac{5}{2}, \frac{8}{3}, \frac{11}{4}, \frac{14}{5}$
x	-3	-2	-1	0	1	2	3												
y																			
A is directly proportional to the square root of b. When $b = 36$, $A = 24$. Find: - an equation connecting A and b. - the value of b when $A = 40$	Find the volume of the cone. Give your answer in terms of π. 	Calculate. Leave your answer in standard form. $(8 \times 10^5) \times (5 \times 10^{-2}) =$ $\frac{2 \times 10^8}{5 \times 10^2} =$	A jar contains: 4 red marbles 6 blue marbles A marble is taken from the jar, replaced, and then a second marble is taken. By completing the tree diagram, work out the probability of getting at least one red marble. 																
At a cafe, 4 smoothies and 3 sandwiches cost £31.40. 7 smoothies and 5 sandwiches cost £53.60. Steve is buying lunch for the office. He needs 10 smoothies and 10 sandwiches. How much will this cost him?	A square has perimeter $\sqrt{5}$ cm. Work out the perimeter of the square. Give your answer in surd form. 	Find the nth term of: $2, 6, 12, 20, 30$																	

