Higher GCSE - Essential Skills 2

Show all of your working out

1	Factorise the expression (2 + 0 + 1)	bai
2*	Work out the missing length to 3sf	
3	Simplify the following surd $\sqrt{45}$	
4*	Malcolm buys a caravan for £12000. It depreciates by 31% per year. How much is it worth after 7 years?	
5*	Use the quadratic formula to solve the equation to 3sf: $5x^2 - 2x - 11 = 0$	
6*	a = 3.4 (1dp) b = 5.8 (1dp) c = 5.12 (2dp) Calculate the lower bound of the following to 4dp ab + c	
7*	Work out the volume of the hemisphere to 3sf	evir nethodus rouk

Some the full wing simultaneous equations

3a 4b = 5a

Calculate the full wing simultaneous equations

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Calculate the full wing simultaneous equations M is inversely proportional to N. M=10 when N=2 What is the nth term of the following sequence? 2, 10, 18, 26, 34 10 Simplify (p⁷ x p⁴)³ 11 Zeeshan buys a hat for £21 in a 30% off sale. What was the original price of the hat? 12* A circle has a radius of 7 and centre (2,3). Write down the equation of the circle. 13 Find the perimeter of the sector to 3sf 13cm 14* T26° Write the following in the form $(x + p)^2 + q$ $x^2 - 6x + 15$ 15