a) A is proportional to the square of B. B is increased by 20%. Work out the percentage increase in A.		B is increased by 50%.	A is proportional to the square of B.	
What equation can be formed for A in terms of B?	$A \propto B^2$ $A = kB^2$	What equation can be formed for A in terms of B?	$A \propto B^2$ $A = kB^2$	
What multiplier increases B by 20%?	20% increase = $120%120%$ as a decimal = 1.2	What multiplier increases B by 50%?	50% increase = $150%150%$ as a decimal = 1.5	
What does the equation look like after applying this increase?	$A = k(1.2B)^2$	What does the equation look like after applying this increase?	$A = k(1.5B)^2$	
Can this be simplified?	$A = k \times 1.2B \times 1.2B$ $A = k \times 1.2 \times 1.2 \times B \times B$ $A = 1.44kB^{2}$	Can this be simplified?		
What does this multiplier represent?	1.44 = 144% 144% = 44% increase	What does this multiplier represent?		
	BACKWAR	D FADED MATHS		

c) A is proportional to the cube of B. B is increased by 10%. Work out the percentage increase in A.		d) A is proportional to the cube of B. B is decreased by 20%. Work out the percentage decrease in A.
What equation can be formed for A in terms of B?	$A \propto B^3$ $A = kB^3$	
What multiplier increases B by 10%?		
What does the equation look like after applying this increase?		
Can this be simplified?		
What does this multiplier represent?		
	BACKWA	ARD FADED MATHS