IGCSE – Direct and Inverse proportion Paper 2 -1

O TO OD I UPOI Z	Oct	03	Paper	2
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10	When cars go round a bend there is a force, F , between the tyres and the ground. F varies directly as the square of the speed, ν . When $\nu = 40$, $F = 18$. Find F when $\nu = 32$.				
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		Answer F =[3]	<u> </u>		
	May 05 Paper 2				
9	The wavelength, w , of a radio signal is inverse When $f = 200$, $w = 1500$.	ely proportional to its frequency, f.			
	(a) Find an equation connecting f and w.				
		Answer (a)	[2]		
	(b) Find the value of f when $w = 600$.				
		Answer (b) $f = \dots$	[1]		
13	Oct 05 Paper 2 The force of attraction (F) between two objects (d) between them. When $d=4$, $F=30$.	s is inversely proportional to the square of the distant	ce		
	Calculate F when $d = 8$.				
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	Oct 04 Paper 2	Answer F =	[3]		
7	The air resistance (R) to a car is proportional When $R = 1800$, $\nu = 30$. Calculate R when $\nu = 40$.	to the square of its speed (v) .			