

## Direct and Inverse Proportion Topic Test 1 (10 minutes) Mark Scheme

Q	Answer	Mark	Comments
1(a)	$y \propto x$ or $x \propto y$	M1	
	or $y = k \times x$ or $x = k \times y$		
	$18 = k \times 6$ or $k = 3$	M1	
	$y = 3x$ or $x = \frac{1}{3}y$	A1	
1(b)	30 = 3x		
	(x =)10	A1	
2	$h \propto \frac{1}{y}$ or $h = \frac{k}{y}$ or $h = k \times \frac{1}{y}$	M1	
	k = 14	A1	
	3 1/2	A1	
	I		
3(a)	$c \propto n \text{ or } n \propto c$	M1	
	or $c = k \times n$ or $n = k \times c$		
	$99 = k \times 18$ or $k = 5.5$	M1	
	c = 5.5n	A1	
3(b)	70 = 5.5n or 12.7	M1	
	12	A1	