## **Direct and Inverse Proportion Revision**

(a)	(b)	(c)				(d)			
y is directly proportional to $x$ . When $x = 8$ , $y = 40$ . Find a formula for $y$ in terms of $x$ .	F is inversely proportional to $t$ . When $F=2.5, t=4$ . Find a formula for $F$ in terms of $t$ .	p is directly proportional to the square of $q$ . When $q=3$ , $p=90$ . Find a formula linking $p$ and $q$ .				$y$ is directly proportional to $x^3$ . When $x = 5, y = 2500$ . Find a formula for $y$ in terms of $x$ .			
(e)	(f)	(g)				(h)			
Sketch the graph showing $y$ is inversely proportional to $x$ .	$y$ is directly proportional to $\sqrt{x}$ . When $x = 4, y = 0.5$ . Find the value of $y$ when $x = 64$ .	$d$ is inversely proportional to $w^2$ . When $w=0.5, d=12$ . Find a formula for $d$ in terms of $w$ .				$T$ is inversely proportional to $\sqrt{L}$ . When $L=16, T=25$ . Find the value of $L$ when $T=10$ .			
(i)		(j)							
The distance $d$ travelled by a bathe time taken, $t$ . After 4 second	Il is proportional to the square of and the ball has travelled 40 m.		х	1	2	5	10	20	
(i) Find a formula linking $d$ and $t$ .  (ii) Find the distance travelled after 7 seconds.			у	100	25	4			
				ula for <i>y</i> the table.	in terms	of x.			