

Question	General Equation	Find k	New Equation	Find Value using Equation
<p>A is directly proportional to B^2, when $A = 45$, $B = 3$. Find A when $B = 7$</p>	$A = k \times B^2$	$45 = k \times 3^2$ so $k = 5$	$A = 5B^2$	$A = 5 \times 7^2 = 245$
<p>(a) y is directly proportional to x^2, and $y = 270$ when $x = 3$. Find y when $x = 5$</p>				
<p>(b) N is directly proportional to L^3, when $N = 1280$, $L = 4$. Find N when $L = 3$</p>				
<p>(c) A is directly proportional to \sqrt{B} and when $A = 90$, $B = 9$. Find A when $B = 25$</p>				
<p>(d) A is directly proportional to B^2 and when $A = 8$, $B = 4$. Find A when $B = 0.5$</p>	<p>(e) h is directly proportional to \sqrt{w} and $h = 15$ when $w = 4$. Find h when $w = 64$</p>	<p>(f) A is directly proportional to V^3 and when $A = 400$, $V = 2$. Find V when $A = 6250$</p>	<p>(g) y is directly proportional to $\sqrt[3]{x}$. When $x = 8$, $y = 64$. Find x when $y = 128$</p>	