

a Write $y \propto x$ as an equation $y = kx$ $y \propto x$ as an equation	b $y \propto x$ and $y = 12$ when $x = 3$. Find k 4 finding k	c $y \propto x$ and $y = 12$ when $x = 3$. Find x when $y = 20$ 5 finding x from the formula	d Write $y \propto \frac{1}{x}$ as an equation $y = \frac{k}{x}$ $y \propto 1/x$ as an equation								
e $y \propto \frac{1}{x}$ and $y = 6$ when $x = 4$. Find k 24 k for inverse proportion	f $y \propto \frac{1}{x}$ and $y = 6$ when $x = 4$. Find y when $x = 3$ 8 using $y = k/x$	g $y \propto x^2$ and $y = 18$ when $x = 3$. Find y when $x = 5$ 50 proportional to x squared	h $y \propto x^2$ and $y = 18$ when $x = 3$. Find x when $y = 72$ $6 \text{ or } -6$ x squared, working backwards								
i $y \propto \sqrt{x}$ and $y = 12$ when $x = 9$. Find y when $x = 25$ 20 proportional to the square root	j $y \propto \frac{1}{x^2}$ and $y = 5$ when $x = 2$. Find y when $x = 4$ 1.25 inversely proportional to x squared	k $y \propto x^3$. x doubles. What is y multiplied by? 8 the effect of doubling with a power	l Find the equation linking x and y . <table border="1"> <tr> <td>x</td><td>1</td><td>2</td><td>4</td></tr> <tr> <td>y</td><td>48</td><td>12</td><td>3</td></tr> </table> $y = \frac{48}{x^2}$ the equation from a table	x	1	2	4	y	48	12	3
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