



# Fill In The Blanks...



## Direct Proportion

General Statement	General Equation	Table of Values	Value of $k$	Specific Equation	When $x = 5$ , $y = ?$	When $y = 24$ , $x = ?$								
$y \propto x$	$y = kx$	<table border="1"> <tr> <td><math>x</math></td> <td>1</td> <td>2</td> <td>10</td> </tr> <tr> <td><math>y</math></td> <td>3</td> <td></td> <td></td> </tr> </table>	$x$	1	2	10	$y$	3			$k = 3$	$y = 3x$	$y = 3 \times 5$ $y = 15$	$24 = 3 \times x$ $x = 8$
$x$	1	2	10											
$y$	3													
$y \propto x$	$y = kx$	<table border="1"> <tr> <td><math>x</math></td> <td>1</td> <td>2</td> <td>10</td> </tr> <tr> <td><math>y</math></td> <td>8</td> <td></td> <td>80</td> </tr> </table>	$x$	1	2	10	$y$	8		80				$x = 3$
$x$	1	2	10											
$y$	8		80											
		<table border="1"> <tr> <td><math>x</math></td> <td>1</td> <td>2</td> <td>10</td> </tr> <tr> <td><math>y</math></td> <td></td> <td></td> <td></td> </tr> </table>	$x$	1	2	10	$y$					$y = 2.5x$		$24 = 2.5 \times x$ $x = 9.6$
$x$	1	2	10											
$y$														
$y \propto x$		<table border="1"> <tr> <td><math>x</math></td> <td>1</td> <td>2</td> <td>10</td> </tr> <tr> <td><math>y</math></td> <td></td> <td>10</td> <td></td> </tr> </table>	$x$	1	2	10	$y$		10					
$x$	1	2	10											
$y$		10												
$y \propto x^2$	$y = kx^2$	<table border="1"> <tr> <td><math>x</math></td> <td>1</td> <td>2</td> <td>10</td> </tr> <tr> <td><math>y</math></td> <td></td> <td></td> <td>600</td> </tr> </table>	$x$	1	2	10	$y$			600	$k = 6$			$24 = 6 \times x^2$ $x = 2$
$x$	1	2	10											
$y$			600											
$y \propto x^2$		<table border="1"> <tr> <td><math>x</math></td> <td>1</td> <td>2</td> <td>10</td> </tr> <tr> <td><math>y</math></td> <td></td> <td></td> <td>150</td> </tr> </table>	$x$	1	2	10	$y$			150				
$x$	1	2	10											
$y$			150											
		<table border="1"> <tr> <td><math>x</math></td> <td>1</td> <td>2</td> <td>10</td> </tr> <tr> <td><math>y</math></td> <td></td> <td>1</td> <td></td> </tr> </table>	$x$	1	2	10	$y$		1		$k = 0.5$			
$x$	1	2	10											
$y$		1												