

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>x</td><td>1</td><td>2</td><td>10</td></tr> <tr><td>y</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>x</td><td>1</td><td>2</td><td>10</td></tr> <tr><td>y</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>x</td><td>1</td><td>2</td><td>10</td></tr> <tr><td>y</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>x</td><td>1</td><td>2</td><td>10</td></tr> <tr><td>y</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>x</td><td>1</td><td>2</td><td>10</td></tr> <tr><td>y</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>x</td><td>1</td><td>2</td><td>10</td></tr> <tr><td>y</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>x</td><td>1</td><td>2</td><td>10</td></tr> <tr><td>y</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												