

Fill in the Blanks

More Inverse Proportion

General Statement	General Equation	Table of Values	Value of k	Specific Equation								
$y \propto \frac{1}{x^2}$	$y = \frac{k}{x^2}$	<table border="1"> <tr> <td>x</td> <td>1</td> <td>2</td> <td>5</td> </tr> <tr> <td>y</td> <td>100</td> <td></td> <td></td> </tr> </table>	x	1	2	5	y	100			$k = 100$	
x	1	2	5									
y	100											
$y \propto \frac{1}{\sqrt{x}}$		<table border="1"> <tr> <td>x</td> <td>1</td> <td>4</td> <td>25</td> </tr> <tr> <td>y</td> <td></td> <td>5</td> <td></td> </tr> </table>	x	1	4	25	y		5			
x	1	4	25									
y		5										
$y \propto \frac{1}{x^3}$		<table border="1"> <tr> <td>x</td> <td>1</td> <td>2</td> <td>10</td> </tr> <tr> <td>y</td> <td></td> <td>125</td> <td></td> </tr> </table>	x	1	2	10	y		125			
x	1	2	10									
y		125										
	$y = \frac{k}{\sqrt[3]{x}}$	<table border="1"> <tr> <td>x</td> <td>1</td> <td>8</td> <td>125</td> </tr> <tr> <td>y</td> <td></td> <td>20</td> <td></td> </tr> </table>	x	1	8	125	y		20			
x	1	8	125									
y		20										
		<table border="1"> <tr> <td>x</td> <td>1</td> <td>4</td> <td>10</td> </tr> <tr> <td>y</td> <td></td> <td>7.5</td> <td>3</td> </tr> </table>	x	1	4	10	y		7.5	3		
x	1	4	10									
y		7.5	3									
		<table border="1"> <tr> <td>x</td> <td>1</td> <td>2</td> <td></td> </tr> <tr> <td>y</td> <td></td> <td>0.75</td> <td>0.12</td> </tr> </table>	x	1	2		y		0.75	0.12	$k = 3$	
x	1	2										
y		0.75	0.12									
		<table border="1"> <tr> <td>x</td> <td>1</td> <td>4</td> <td></td> </tr> <tr> <td>y</td> <td></td> <td>$\frac{1}{12}$</td> <td>$\frac{1}{30}$</td> </tr> </table>	x	1	4		y		$\frac{1}{12}$	$\frac{1}{30}$	$k = \frac{1}{6}$	
x	1	4										
y		$\frac{1}{12}$	$\frac{1}{30}$									
$y \propto \frac{1}{x^3}$		<table border="1"> <tr> <td>x</td> <td>1</td> <td>$\sqrt{3}$</td> <td>2</td> </tr> <tr> <td>y</td> <td></td> <td>3</td> <td></td> </tr> </table>	x	1	$\sqrt{3}$	2	y		3			
x	1	$\sqrt{3}$	2									
y		3										
		<table border="1"> <tr> <td>x</td> <td>0.5</td> <td>2</td> <td></td> </tr> <tr> <td>y</td> <td>$4a$</td> <td></td> <td>$\frac{a}{16}$</td> </tr> </table>	x	0.5	2		y	$4a$		$\frac{a}{16}$	$k = a$	
x	0.5	2										
y	$4a$		$\frac{a}{16}$									