



Fill In The Blanks...



Inverse Proportion

General Statement	General Equation	Table of Values	Value of k	Specific Equation	When $x = 6$, $y = ?$	When $y = 10$, $x = ?$								
$y \propto \frac{1}{x}$	$y = \frac{k}{x}$	<table border="1"> <tr><td>x</td><td>1</td><td>4</td><td>8</td></tr> <tr><td>y</td><td>48</td><td>12</td><td>6</td></tr> </table>	x	1	4	8	y	48	12	6	$k = 48$	$y = \frac{48}{x}$	$y = \frac{48}{6} = 8$	$x = \frac{48}{10} = 4.8$
x	1	4	8											
y	48	12	6											
$y \propto \frac{1}{x}$	$y = \frac{k}{x}$	<table border="1"> <tr><td>x</td><td>1</td><td>2</td><td>5</td></tr> <tr><td>y</td><td>120</td><td>60</td><td>24</td></tr> </table>	x	1	2	5	y	120	60	24	$k = 120$	$y = \frac{120}{x}$	$y = \frac{120}{6} = 20$	$x = \frac{120}{10} = 12$
x	1	2	5											
y	120	60	24											
$y \propto \frac{1}{x}$	$y = \frac{k}{x}$	<table border="1"> <tr><td>x</td><td>1</td><td>5</td><td>10</td></tr> <tr><td>y</td><td>30</td><td>6</td><td>3</td></tr> </table>	x	1	5	10	y	30	6	3	$k = 30$	$y = \frac{30}{x}$	$y = \frac{30}{6} = 5$	$x = \frac{30}{10} = 3$
x	1	5	10											
y	30	6	3											
$y \propto \frac{1}{x}$	$y = \frac{k}{x}$	<table border="1"> <tr><td>x</td><td>5</td><td>20</td><td>100</td></tr> <tr><td>y</td><td>120</td><td>30</td><td>6</td></tr> </table>	x	5	20	100	y	120	30	6	$k = 600$	$y = \frac{600}{x}$	$y = \frac{600}{6} = 100$	$x = \frac{600}{10} = 60$
x	5	20	100											
y	120	30	6											
$y \propto \frac{k}{x^2}$	$y = \frac{k}{x^2}$	<table border="1"> <tr><td>x</td><td>1</td><td>2</td><td>3</td></tr> <tr><td>y</td><td>36</td><td>9</td><td>4</td></tr> </table>	x	1	2	3	y	36	9	4	$k = 36$	$y = \frac{36}{x^2}$	$y = \frac{36}{6^2} = 1$	$x = \frac{36}{10^2} = 0.36$
x	1	2	3											
y	36	9	4											
$y \propto \frac{k}{x^2}$	$y = \frac{k}{x^2}$	<table border="1"> <tr><td>x</td><td>1</td><td>2</td><td>10</td></tr> <tr><td>y</td><td>300</td><td>75</td><td>3</td></tr> </table>	x	1	2	10	y	300	75	3	$k = 300$	$y = \frac{300}{x^2}$	$y = \frac{300}{6^2} = \frac{25}{3}$	$x = \frac{300}{10^2} = 3$
x	1	2	10											
y	300	75	3											
$y \propto \frac{k}{x}$	$y = \frac{k}{x}$	<table border="1"> <tr><td>x</td><td>1</td><td>5</td><td>10</td></tr> <tr><td>y</td><td>20</td><td>4</td><td>2</td></tr> </table>	x	1	5	10	y	20	4	2	$k = 20$	$y = \frac{20}{x}$	$y = \frac{20}{6} = \frac{10}{3}$	$x = \frac{20}{10} = 2$
x	1	5	10											
y	20	4	2											