|  |  |
| --- | --- |
| **Fill in the Blanks** | **Direct Proportion** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **General Statement** | **General Equation** | **Table of Values** | **Value** **of** $k$ | **Specific****Equation**  | **When** $x=5,$$$ y=?$$ | **When** $y=24, x=?$ |
| $$y∝x$$ | $$y=kx$$ |

|  |  |  |  |
| --- | --- | --- | --- |
| $$x$$ | $$1$$ | $$2$$ | $$10$$ |
| $$y$$ | $$3$$ |  |  |

 | $$k=3$$ | $$y=3x$$ | $$y=3×5$$$$y=15$$ | $$24=3×x$$$$x=8$$ |
| $$y∝x$$ | $$y=kx$$ |

|  |  |  |  |
| --- | --- | --- | --- |
| $$x$$ | $$1$$ | $$2$$ | $$10$$ |
| $$y$$ | $$8$$ |  | $$80$$ |

 |  |  |  | $$x=3$$ |
|  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| $$x$$ | $$1$$ | $$2$$ | $$10$$ |
| $$y$$ |  |  |  |

 |  | $$y=2.5x$$ |  | $$24=2.5×x$$$$x=9.6$$ |
| $$y∝x$$ |  |

|  |  |  |  |
| --- | --- | --- | --- |
| $$x$$ | $$1$$ | $$2$$ | $$10$$ |
| $$y$$ |  | $$10$$ |  |

 |  |  |  |  |
| $$y∝x^{2}$$ | $$y=kx^{2}$$ |

|  |  |  |  |
| --- | --- | --- | --- |
| $$x$$ | $$1$$ | $$2$$ | $$10$$ |
| $$y$$ |  |  | $$600$$ |

 | $$k=6$$ |  |  | $$24=6×x^{2}$$$$x=2$$ |
| $$y∝x^{2}$$ |  |

|  |  |  |  |
| --- | --- | --- | --- |
| $$x$$ | $$1$$ | $$2$$ | $$10$$ |
| $$y$$ |  |  | $$150$$ |

 |  |  |  |  |
|  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| $$x$$ | $$1$$ | $$2$$ | $$10$$ |
| $$y$$ |  | $$1$$ |  |

 | $$k=0.5$$ |  |  |  |