| General Statement | General Equation | Table of Values | | | | Value of $k$ | Specific Equation | When $x = 5$, $y = ?$ | When $y = 24$, $x = ?$ |
|---|---|---|---|---|---|---|---|---|---|
| $y \propto x$ | $y = kx$ | $x$ | 1 | 2 | 10 | $k = 3$ | $y = 3x$ | $y = 3 \times 5$ $y = 15$ | $24 = 3 \times x$ $x = 8$ |
| | | $y$ | 3 | 6 | 30 | | | | |
| $y \propto x$ | $y = kx$ | $x$ | 1 | 2 | 10 | $k = 8$ | $y = 8x$ | $y = 8 \times 5$ $y = 40$ | $x = 3$ |
| | | $y$ | 8 | 16 | 80 | | | | |
| $y \propto x$ | $y = kx$ | $x$ | 1 | 2 | 10 | $k = 2.5$ | $y = 2.5x$ | $y = 2.5 \times 5$ $y = 12.5$ | $24 = 2.5 \times x$ $x = 9.6$ |
| | | $y$ | 2.5 | 5 | 25 | | | | |
| $y \propto x$ | $y = kx$ | $x$ | 1 | 2 | 10 | $k = 5$ | $y = 5x$ | $y = 5 \times 5$ $y = 25$ | $24 = 5 \times x$ $x = 4.8$ |
| | | $y$ | 5 | 10 | 50 | | | | |
| $y \propto x^2$ | $y = kx^2$ | $x$ | 1 | 2 | 10 | $k = 6$ | $y = 6x^2$ | $y = 6 \times 5^2$ $y = 150$ | $24 = 6 \times x^2$ $x = 2$ |
| | | $y$ | 6 | 24 | 600 | | | | |
| $y \propto x^2$ | $y = kx^2$ | $x$ | 1 | 2 | 10 | $k = 1.5$ | $y = 1.5x^2$ | $y = 1.5 \times 5^2$ $y = 37.5$ | $24 = 1.5 \times x^2$ $x = 4$ |
| | | $y$ | 1.5 | 6 | 150 | | | | |
| $y \propto x$ | $y = kx$ | $x$ | 1 | 2 | 10 | $k = 0.5$ | $y = 0.5x$ | $y = 0.5 \times 5$ $y = 2.5$ | $24 = 0.5 \times x$ $x = 48$ |
| | | $y$ | 0.5 | 1 | 5 | | | | |