

91 If y is directly proportional to $x^{1.25}$, then $y = kx^{1.25}$ must hold. Given that $y = 1.9$ when $x = 1.1$, we may calculate the value of $k = \frac{y}{x^{1.25}} = \frac{1.9}{1.1^{1.25}} \approx 1.69$. The variation equation can be written as follows: $y \approx 1.69x^{1.25}$. When a fiddler crab has claws weighing 0.75 grams, its body weight will be approximately $y \approx 1.69(0.75)^{1.25} \approx 1.18$ grams.