

61 From Example 2, $S(w, h) = 0.007184(w^{0.425})(h^{0.725})$ where w is weight in kilograms and h is height in centimeters. Let $S = 1.77$, $w = 154$, and $h = 65$. Then, $1.77 = k(154^{0.425})(65^{0.725})$, which results in $k \approx 0.0101$. Thus, $S(w, h) = 0.0101(w^{0.425})(h^{0.725})$, where w is in pounds, h is in inches, and S is in square meters.