

85 (a) $(g \circ f)(96) = g(f(96)) = g(6) = 1.5$. $(g \circ f)(96)$ computes the number of quarts in 96 tablespoons.

(b) $g^{-1}(2) = 8$. g^{-1} converts quarts into cups. There are 8 cups in 2 quarts.

(c) $(f^{-1} \circ g^{-1})(1.5) = f^{-1}(g^{-1}(1.5)) = f^{-1}(6) = 96$. $(f^{-1} \circ g^{-1})(1.5)$ computes the number of tablespoons in 1.5 quarts.