

8. (3 points each) Harry, Ron, and Hermione are all thrilled about their abundance of Bertie Bott's Every Flavor Beans; however, they prefer Chocolate Frogs to Bertie Bott's Beans. Luckily, at the wizard fair there is a booth where wizards are able to exchange Bertie Bott's Beans for Chocolate Frogs. The number of beans, N , needed to "purchase" F chocolate frogs is given by the function $N = C(F)$. Using *complete* sentences, give the practical interpretations of each of the following statements in the context of this problem.

(a) $C(3)$

(b) $C'(3) = 18$

(c) $C^{-1}(91)$

(d) $(C^{-1})'(91) = 0.05$

(e) $\int_4^{10} (C'(F))dF$