Name:	

You have five minutes to complete the following problem, without using your notes or your book.

For some painkillers, the size of the dose given, D, depends on the weight of the patient, W. Thus D = f(W), where D is in miligrams an W is in pounds.

(a) Interpret the statements f(140) = 120 and f'(140) = 3 in terms of this painkiller.

(b) Use the information in the statements part (a) to estimate f(145).