Biostatistics 140.653 Third Term, 2021 February 15, 2020 Quiz 1

The purpose of this quiz is to assess your knowledge of the course materials covered during the first two weeks of class and covered in Problem Set 1.

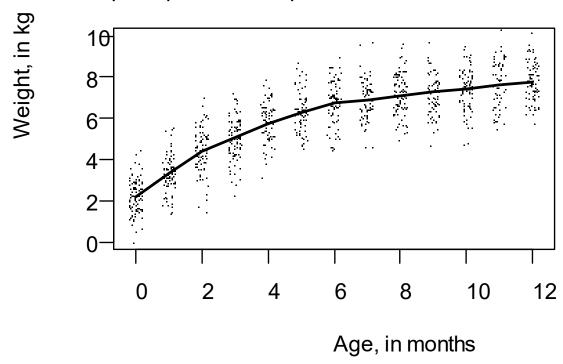
Instructions:

- This is an open book quiz; you may consult your course notes and handouts.
- You should not discuss this quiz with any other student during Monday Feb 15th.
- This quiz is designed to be completed in 20-30 minutes.
- You may provide your solution by editing the word version of this quiz, annotating the pdf version of this quiz or writing your solution on paper and submitting a picture of your solution.

By signing my name, I enter agree to abide by the instructions above and the Johns Hopkins University School of Public Health Academic Code:

Name (Print): _	 	 	
Sianature:			

Below find a plot of weight against age (points include horizontal jitter) and a fitted curve estimated using a particular linear regression model with a subset of observations from the Nepali Children's Anthropometry Dataset that you used in Problem Set 1.



1. Write the multiple linear regression equation for the fitted line using specific numeric values (not letters) for the coefficients. (Hint: if you site down the line, you will see 3 knots at 2, 4, and 6 months)

- 2. An estimate of the residual standard deviation is (choose single best answer)
- (a). 0.2 kg
- (b). 0.8 kg
- (c). 2 kg
- (d). 8 kg
- (e). 20 kg