

- (a) Find the probability that the SBP of a randomly chosen adult is less than 132. [2]

The SBP of 12-year-old children in the same population is normally distributed with mean 117. Of these children 88% have SBP more than 108.

- (b) Find the standard deviation of this distribution. [3]

This image shows a full page of white paper with horizontal dashed lines, typical of primary school handwriting practice paper. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Three adults are chosen at random from this population.

- (c) Find the probability that each of these three adults has SBP within 1.5 standard deviations of the mean. [4]

[illegible]