

IB Statistics and Probability Problem 010

The weights of children in a group are normally distributed with a mean of 22.5kg and a standard deviation of 2.2kg .

- A. Write down the probability that a randomly chosen child has a weight greater than 25.8kg .
- B. 95% of the children in this group weigh less than k kilograms. Find the value of k .
- C. The figure below shows a normal curve.

On this figure, shade the region that represents the following information:

87% of the children weigh less than 25kg .

