



# Core Mathematics S2(GCE)

Practice Question 4

Standard A★

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**CRITICAL THINKING IS THE KEY TO SOLVE REAL WORLD PROBLEMS.  
CHILDREN MUST BE TAUGHT HOW TO THINK, NOT WHAT TO THINK.  
A GREAT TEACHER WILL BE CREATING STUDENTS TO DO NEW THINGS  
THROUGH CRITICAL THINKING, NOT SIMPLY REPEATING WHAT OTHER  
GENERATIONS HAVE DONE BEFORE. WE DO NOT NEED ANOTHER  
ALBERT EINSTEIN OR ISAAC NEWTON.... WE NEED A PERSON BETTER  
THAN THEM.**

**MR.S.V. SWARNARAJA**

## Question:

Chocolate bars are manufactured with lengths  $L$ , which are normally distributed with mean =  $15\text{ cm}$  and standard deviation =  $0.57\text{ cm}$ . Five hundred chocolate bars are taken randomly.

Using a Poisson approximation, find at least 498 of these chocolate bars are less than  $162\text{ mm}$ .

(9 marks)

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