



## MATHS

## **BOOKS - MODERN PUBLICATION**

## **MATHEMATICAL MODELLING**



**1.** The angle of elevation of the top of a tower

from a point O, on the ground, which is 600 m

away from the foot of the tower, is  $45^{\,\circ}$  . Obtain

the height of the tower.



2. A farm uses at least 800 kg of special feed

daily. The special feed is a mixture of corn and

soyabean with the following compositions :

composition and composition of the second se				
Material	Nutrients present per kg protein	Nutrients present per kg Fibre	Cost per kg	
Corn Soyabean	·09 ·60	·02 ·06	Rs. 10 Rs. 20	

The

dietary requirements of the special food

stipulate at least 30% protein and at most 5%

fibre. Determine the daily minimum cost of the

food mix.

Watch	Video	So	lution

**3.** The population control unit wants to find : "How many people will be in a certain country after 10 years."

Watch Video Solution