



**MATHS**

**NCERT - NCERT**

**MATHEMATICS(TELUGU)**

**APPENDIX 2 MATHEMATICAL  
MODELLING**

**Example**

1. The angle of elevation of the top of a tower from a point on the ground, which is 30 m away from the foot of the tower, is  $30^\circ$ . Find the height of the tower.



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2. A farm house uses atleast 800 kg of special food daily. The special food is a mixture of corn and soyabean with the following compositions

| Material | Nutrients present per Kg<br>Protein | Nutrients present per Kg<br>Fibre | Cost per Kg |
|----------|-------------------------------------|-----------------------------------|-------------|
| Corn     | .09                                 | .02                               | Rs 10       |
| Soyabean | .60                                 | .06                               | Rs 20       |

The dietary requirements of the special food stipulate atleast 30% protein and at most 5% fibre. Determine the daily minimum cost of the food mix.



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3. Express each of the following decimals in the  $\frac{p}{q}$  form

10.10



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