



# **MATHS**

## **BOOKS - VGS BRILLIANT MATHS**

### **(TELUGU ENGLISH)**

## **APPENDIX MATHEMATICAL**

## **MODELLING**

**Do This**

1. Write some more mathematical models which you have learnt in previous classes.



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2. Take any word problem from your textbook, make a mathematical model for the chosen problem and solve it.

Problem: (Page No. 317, Ex. 9)

Harpreet tosses two different coins simultaneously (say, one is of Rs. 1 and other

of Rs. 2) What is the probability that she gets at least one head?



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**3.** Make a mathematical model for the problem given below and solve it. Suppose a car starts from a place A and travels at a speed of 40 Km/h towards another place B. At the same time another car starts from B and travels towards A at a speed of 30 Km/h. If the

distance between A and B is 100 km, after how much time will that cars meet?



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**Try This**

1. Ravi wants to buy a bicycle. He goes to the market and finds that the bicycle of his choice costs Rs. 2,400. He has only Rs. 1,400 with him. To help, the shopkeeper offers to help him. He says that he can make a down payment of Rs.

1400 and pay the rest in monthly instalments of Rs. 550 each. Ravi can either take the shopkeepers offer or go to a bank and take a loan at 12% per annum simple interest. From these two opportunities which is the best one to Ravi. Help him.



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[Think Discuss](#)

1. Discuss with your friends some more examples in real life where we cannot directly measure and must use mathematical modelling.



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