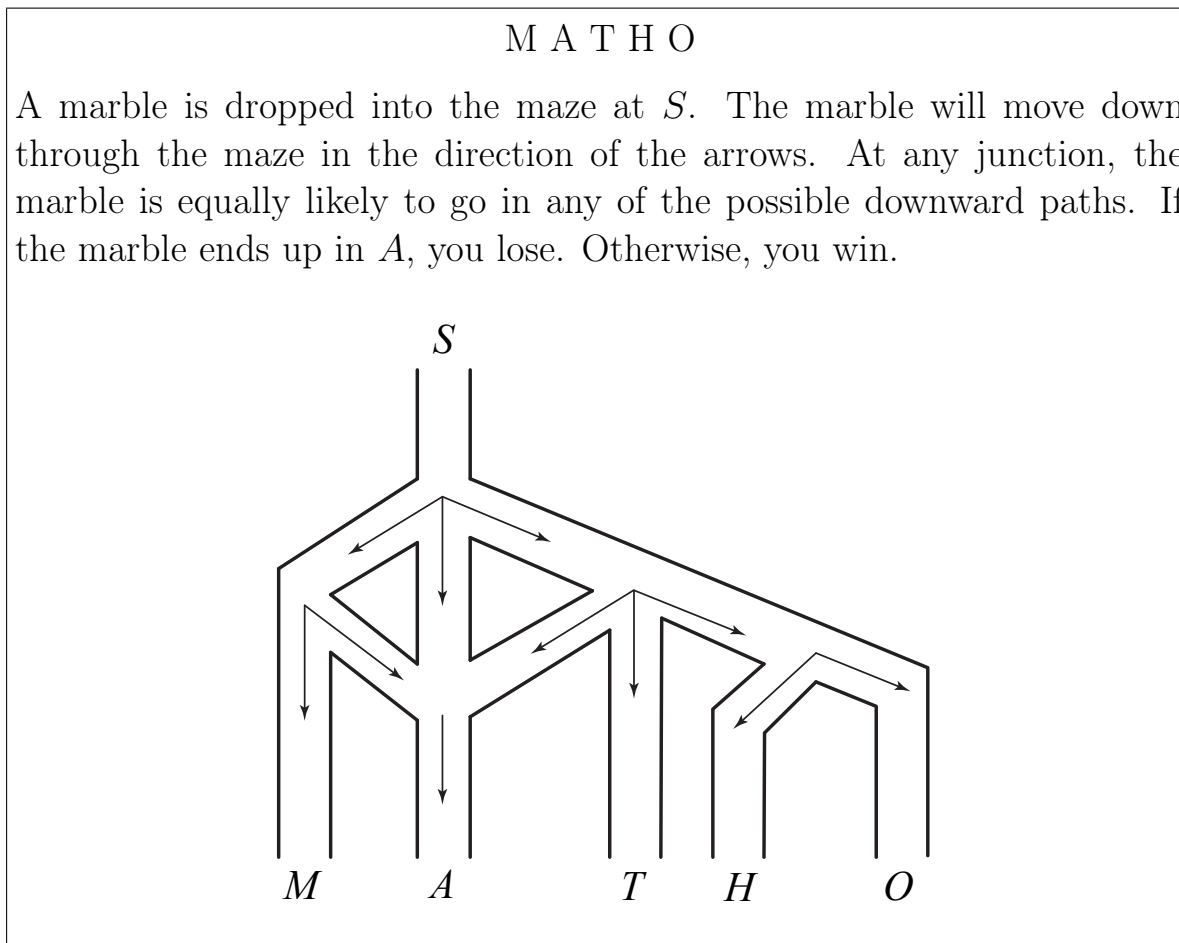


Problem of the Week

Problem D

Marble Maze

In **MATHO**, the game described below, what is the probability of winning?



A Probability Note:

On a fair, six-sided die, with sides labelled 1 to 6, the probability of rolling each of the numbers from 1 to 6 is equally likely. So the probability of rolling a 3 is $\frac{1}{6}$. If you pick up that die and roll it again, the probability of rolling a 4 is $\frac{1}{6}$. The probability of rolling a 3 and then rolling a 4 is therefore $\frac{1}{6} \times \frac{1}{6} = \frac{1}{36}$.

