



**Cheenta**  
*Passion for Mathematical Science*  
**Problem Solving marathon**

Instructor's Name: Ashani Dasgupta  
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- The Set comprises hints on three levels of questions as following-  
Level 0- for Class **III-V**  
Level 1- for Class **VI-VIII**  
Level 2- for the rest
- You may contact Shubhadip Ghosh through Skype
- Solve as much as you can, even if you cannot solve fully write whatever your idea is.

## 1 Level 0

**Q.1:** Here triangle  $CAT$  is an isosceles triangle, Try to find the value of  $\angle ATC$

**Q.2:** Look on the pattern.

## 2 Level 1

**Q.1:** First symbolize the number i.e., the number looks like "**mnopnm**". Now **p** cannot be 2 or 3.

**Q.2:** Discriminant of a Quadratic equation plays a significant role here. put  $x = \frac{a}{b}$

## 3 Level 2

**Q.1:**Factorise the given expression. Then try to find the pairwise different divisors 33.