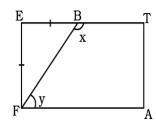
चालिका विद्यापीठ

VIDYA BHAWAN, BALIKA VIDYAPITH

Shakti Utthan Ashram, Lakhisarai-811311(Bihar) (Affiliated to CBSE up to +2 Level)

Class: VIII Subject: Mathematics

- 1. How many sides does a regular polygon have if each of its interior angles is 165°?
- 2. A football team won 10 matches out of the total number of matches they played. If their win percentage was 40, then how many matches did they play in all?
- 3. Find the cube root of 10648 by prime factorisation method.
- **4.** A playground is in the form of a rectangle ATEF. Two players are standing at the points F and B where EF = EB. Find the values of x and y.



- 5. By which smallest natural number 392 must be multiplied so as to make the product a perfect cube?
- 6. The population of a place increased to 54000 in 2003 at a rate of 5% per annum. What would be its population in 2006?
- 7. A sum of Rs 10,000 is borrowed at a rate of interest 15%p.a. for 2 years. Find simple interest and the amount to be paid at the end of 2 years.
- 8. There are 100 students in a hostel. Food provision for them is for 20 days. How long will these provisions last, if 25 more students join the group?
- 9. The digits of a two-digit number differ by 3. If digits are interchanged and the resulting number is added to the original number, we get 121. Find the original number.
- 10. The lateral surface area of a hollow cylinder is 4224 cm². It is cut along its height and formed a rectangular sheet of width 33 cm. Find the perimetre of rectangular sheet.
- 11. Fectorise (i) $(l + m)^2 (l m)^2$

(ii)
$$25a^2 - 4b^2 + 28bc - 49c^2$$