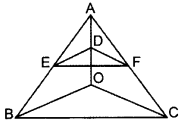
**Directions:**

**1. Answer these questions carefully**

**2. Write according to the marks allotted**

**3. Time allotted is 30 mins to solve this paper**

1. If the roots of the equation (b-c)x2 + (c-a)x + (a-b) = 0 are equal then prove that 2b=a+c [1]
2. The first and the last terms of an AP are 8 and 65 respectively. If the sum of all its terms is 730, find its common difference. [2]
3. The nth term of an A.P. is given by (-4n + 15). Find the sum of first 20 terms of this A.P.  [2]
4. Find the value of p so that the quadratic equation px(x – 3) + 9 = 0 has two equal roots. [2]
5. Solve for x by making a quadratic equation :  
    [2]
6. In ∆DEW, AB || EW. If AD = 4 cm, DE = 12 cm and DW = 24 cm, then find the value of DB.  [2]
7. A man arranges to pay a debt of Rs 36000 in 40 monthly instalments which are in AP. When 30 instalments were done he passed away leaving a third of the debt left to pay. Find how much he paid for his 5th instalment. [3]
8. In the figure, if DE || OB and EF || BC, then prove that DF || OC.  [3]



BEST OF LUCK