



10 YEARS EXPERIENCE OF CBSE/ICSE

Subject: - Mathematics

PRACTICE PAPER

CBSE-7

Topic: - TRIANGLES & ITS PROPERTIES

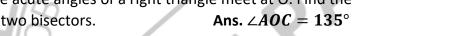
1. If the angles of a triangle are in the ratio of 1 : 2 : 3, determine three angles.

Ans. $x = 30^{\circ}$

- 2. the angles of a triangle are $(x-40)^\circ$, $(x-20)^\circ$ and $\left(\frac{1}{2}x-10\right)^\circ$. Find the value of x. **Ans.** $x=100^\circ$
- 3. The angles of a triangle are arranged in ascending order of magnitude. If the difference b/w two consecutive angles is 10°. Find the three angles. Ans. $x = 50^{\circ}$
- 4. If each angle of a triangle is less than the sum of the other two, show that the triangle is acute angled.
- 5. In $\triangle ABC$ If $3 \angle A = 4 \angle B = 6 \angle C$. Calculate the angles.

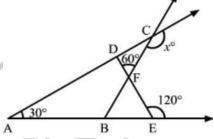
Ans. $\angle A = 80^{\circ}$, $\angle B = 60^{\circ}$, $\angle C = 40^{\circ}$

- 6. In $\triangle ABC$, $\angle A = 50^{\circ}$, $\angle B = 70^{\circ}$ and bisector of $\angle C$ meets AB in D. Find the angles of a $\triangle ADC$ and ΔBDC . Ans. $\angle ADC = 100^{\circ}, \angle BDC = 80^{\circ}$
- 7. The bisector of the acute angles of a right triangle meet at O. Find the angles at O b/w the two bisectors.



8. In fig. measure of some angles are indicated. Find the value of x.

Ans. $x = 150^{\circ}$



9. Ina $\triangle ABC$, AD is the altitude from A such that AD = 12 cm, BD = 9cm and DC = 16 cm. Examine if \triangle ABC is right angled at A.

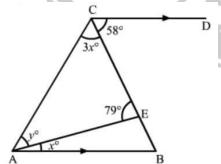
Ans. Yes

- 10. Two poles of heights 6 m and 11 m stand on a plane ground. If the distance b/w their feet is 12 m, find the distance b/w their tops.
- 11. In fig. if $AB \parallel CD$, find the values of x and y.

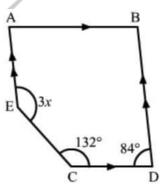
Ans. $x = 21^{\circ}, y = 38^{\circ}$

12. In fig. If $AB \parallel CD$ and $AE \parallel BD$, find the value of x.

Ans. 48°



Q.12.



Q.11.

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