Ch-10 Heron's Formula

1. For a triangle with length of sides (a, b and c); perimeter = a + b + c.
2. Area of a triangle = $\frac{1}{2}$ x base x altitude.
3. Area of an isosceles triangle with length of two equal sides (a) and base (b) = $\frac{1}{2}$ x b x $\sqrt{a^2 - \frac{b^2}{4}}$.
4. Area of an equilateral triangle with side (a) = $\frac{\sqrt{3}}{4}$ x a^2.
5. Altitude of an equilateral triangle with side (a) = $\frac{\sqrt{3}}{2}$ x a.
6. **Heron's formula –** If a, b, c denote the lengths of the sides of a triangle, then area of triangle is represented as –
   Ar(Δ) = $\sqrt{s(s-a)(s-b)(s-c)}$;
   Where s = $\frac{a+b+c}{2}$.