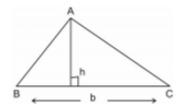
Key Notes

Chapter 12

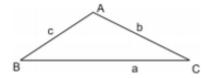
Heron's Formula

- 1. Area of a Triangle by Heron's Formula
- 2. Application of Heron's Formula in finding Areas of Quadrilaterals
- Triangle with base 'b' and altitude 'h' is

Area =
$$\frac{1}{2} \times \times \times$$



- Triangle with sides a, b and c
 - (i) Semi perimeter of triangle $s = \frac{a+b+}{2}$
 - (ii) Area = $\sqrt{s(s-a)(s-b)(s-c)}$ square units.



• Equilateral triangle with side 'a'

Area =
$$\frac{\sqrt{3}}{4}a^2$$
 square units

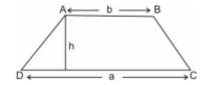


• Trapezium with parallel sides 'a' & 'b' and the distance between two parallel sides as 'h'.

Area =
$$\frac{1}{2}$$
(a+b)h square units

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Key Notes



• Rhombus with diagonals d_1 and d_2

Area =
$$\frac{1}{2}d_1 \times d_2$$
;

Perimeter =
$$2\sqrt{d_1^2 + d_2^2}$$

