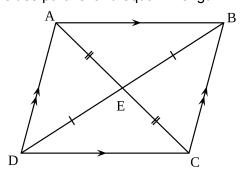
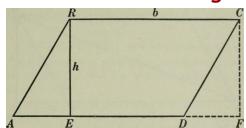
Definition: – A Parallelogram is a flat shape with opposite sides parallel and equal in length.



Where:

- ←Opposite sides are parallel
- ←Opposite angles are equal (angles "a" are the same, and angles "b" are the same)
- ←Angles "a" and "b" add up to 180°, so they are supplementary angles.

Area of a Parallelogram:-

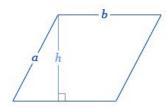


The area is base times the height;

Area = b X h

(h is at right angle to b)

Perimeter of a Parallelogram:-



Perimeter of a Parallelogram Formula = 2 (a + b) units

There are six important properties of parallelograms to know:-

- 1. Opposite sides are congruent (AB = DC).
- 2. Opposite angles are congruent (D = B).
- 3. Consecutive angles are supplementary (A + D = 180°).
- 4. If one angle is right, then all angles are right.
- 5. The diagonals of a parallelogram bisect each other.
- 6. Each diagonal of a parallelogram separates it into two congruent triangles.