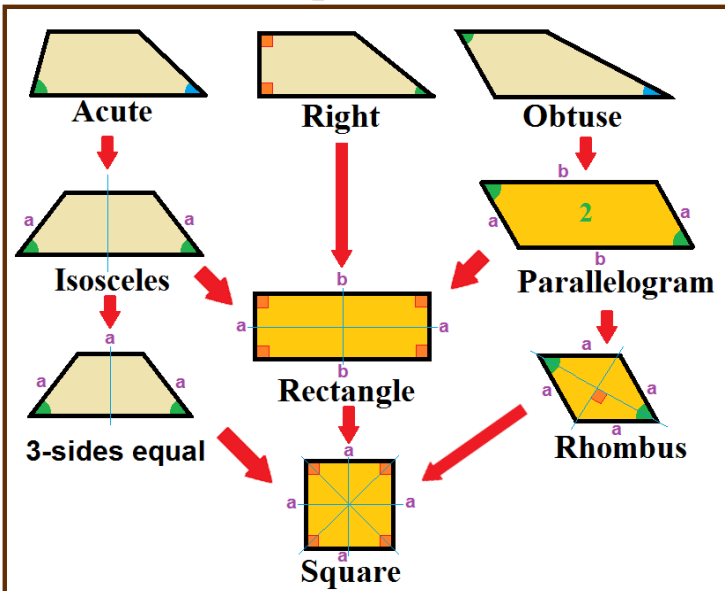


Definition: - A trapezoid is a 4-sided flat shape with straight sides that has a pair of opposite sides parallel.

Trapezoids

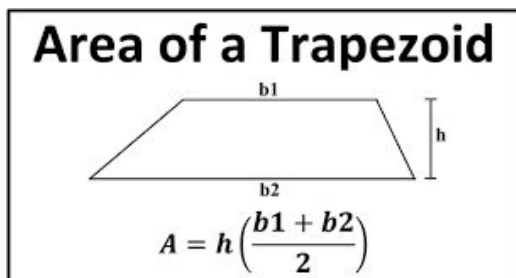


Where:

- ☞ A pair of parallel sides
- ☞ Called an Isosceles trapezoid when the sides that aren't parallel are equal in length and both angles coming from a parallel side are equal.
- ☞ The parallel sides are the "bases"
- ☞ The other two sides are the "legs"
- ☞ The distance (at right angles) from one base to the other is called the "altitude"

Area of a Trapezoid: -

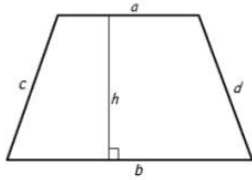
The area is the average of **two base lengths** times the **altitude**;



Perimeter of a Trapezoid: -

Perimeter of Trapezoid

To find the perimeter of a trapezoid, just add up all the lengths of the side



Perimeter :

$$P = a + b + c + d$$