

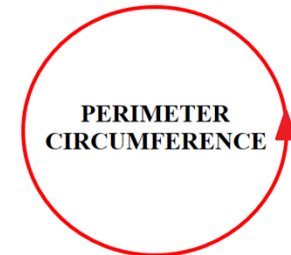
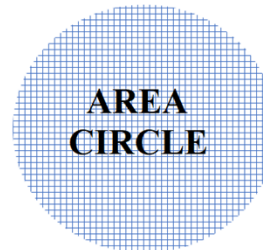
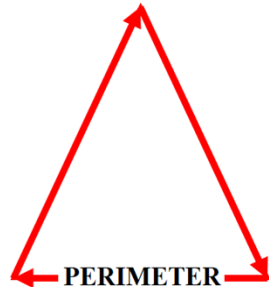
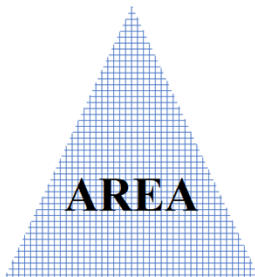
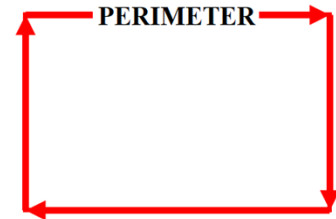
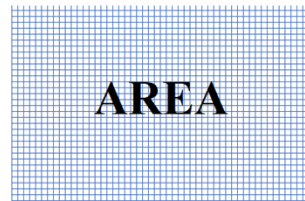
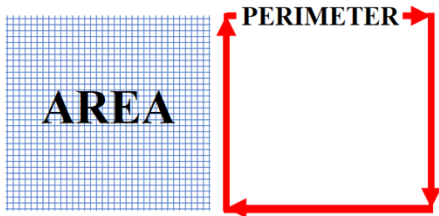
# PLANE GEOMETRY



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**PERIMETER:** It is the distance around the figure; that is, the contour. Most, are calculated as the sum of the lengths of its sides.

**AREA:** Describes the amount of surface that the figure covers. It is defined as the number of bounded square units by the contour or perimeter.



YouTube



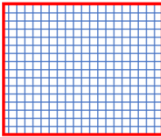
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# PLANE GEOMETRY



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## SQUARE



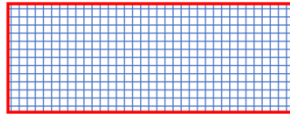
$l$

$$P = l + l + l + l = 4l$$

$$A = l \cdot l = l^2$$

Perimeter(P), Area(A), length(l)

## RECTANGLE



$w$

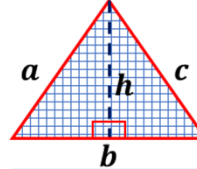
$l$

$$P = l + l + w + w = 2l + 2w$$

$$A = l \cdot w$$

Perimeter(P), Area(A), length(l), width(w)

## TRIANGLE



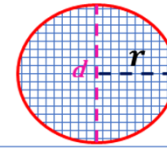
$b$

$$P = a + b + c$$

$$A = \frac{1}{2} b \cdot h$$

Perimeter(P), Area(A), base(b), height(h), sides(a,c)

## CIRCLE

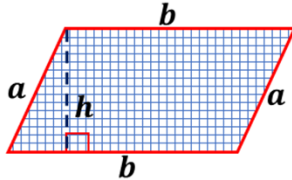


$$P = C = 2\pi r = \pi d$$

$$A = \pi r^2$$

Perimeter(P), Circumference(C), Area(A),  $\pi = 3.14159\dots$ , radius(r), diameter( $d = 2r$ )

## PARALLELOGRAM

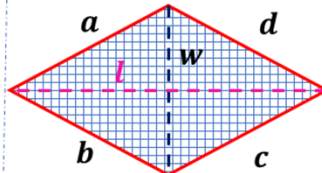


$$P = a + a + b + b = 2a + 2b$$

$$A = b \cdot h$$

Perimeter(P), Area(A), base(b), side(a), height(h)

## RHOMBUS

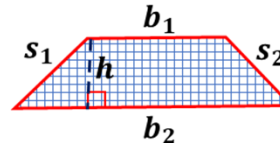


$$P = a + b + c + d$$

$$A = \frac{1}{2} l \cdot w$$

Perimeter(P), Area(A), length(l), width(w), sides(a,b,c,d)

## TRAPEZOID

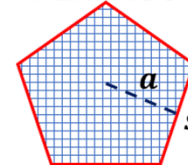


$$P = b_1 + b_2 + s_1 + s_2$$

$$A = \frac{1}{2} h(b_1 + b_2)$$

Perimeter(P), Area(A), bases( $b_1, b_2$ ), sides( $s_1, s_2$ ), height(h)

## PENTAGON



$$P = s + s + s + s + s = 5s$$

$$A = \frac{1}{2} P \cdot a$$

Perimeter(P), Area(A), side(s), apothem(a)



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