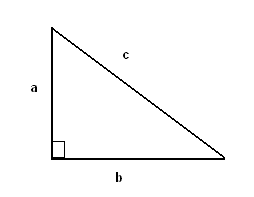
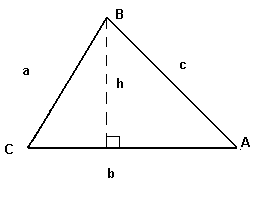
## **Right Triangle and Pythagoras theorem**

Pythagoras theorem: The two sides **a** and **b** of a right triangle and the hypotenuse c are related by : **a 2 + b 2 = c 2**



## **Area and Perimeter of Triangle**



**Perimeter = a + b + c**

**Area = (1 / 2) \* b \* h.**

**Area = (1 / 2)\* b \* c sin A**

**Area = (1 / 2)\* a \* c sin B**

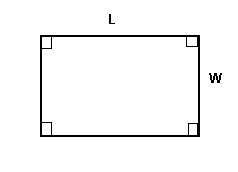
**Area = (1 / 2)\* a \* b sin C .**

**Heron's formula**:

Area = **sqrt [ s(s - a)(s - b)(s - c) ]** ,

where **s = (a + b + c)/2.**

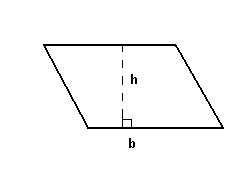
## **Area and Perimeter of Rectangle**



**Perimeter = 2(L + W)**

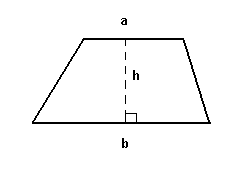
**Area = L \* W**

## **Area of Parallelogram**



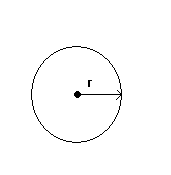
**Area = b \* h**

## **Area of Trapezoid**



**Area = (1 / 2)\*(a + b) \* h**

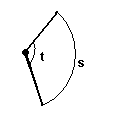
## **Circumference of a Circle and Area of a Circular Region**



**Circumference = 2\*Pi\*r**

**Area = Pi\*r 2**

## **Arc length and Area of a Circular Sector**

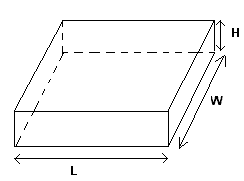
****

**Arc length: s = r\*t**

**Area = (1/2) \*r 2 \* t**

where t is the central angle in **RADIANS**.

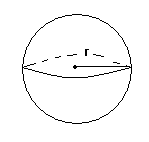
**Volume and Surface Area of a Rectangular Solid**



**Volume = L\*W\*H**

**Surface Area = 2(L\*W + H\*W + H\*L)**

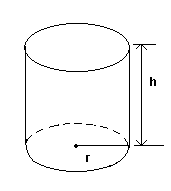
## **Volume and Surface Area of a Sphere**

****

**Volume = (4/3)\* Pi \* r 3**

**Surface Area = 4 \* Pi \* r 2**

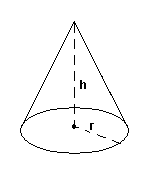
## **Volume and Surface Area of a Right Circular Cylinder**

****

**Volume = Pi \* r 2 \* h**

**Surface Area = 2 \* Pi \* r \* h**

## **Volume and Surface Area of a Right Circular Cone**

****

**Volume = (1/3)\* Pi \* r 2 \* h**

**Surface Area = Pi \* r \* sqrt (r 2 + h 2)**