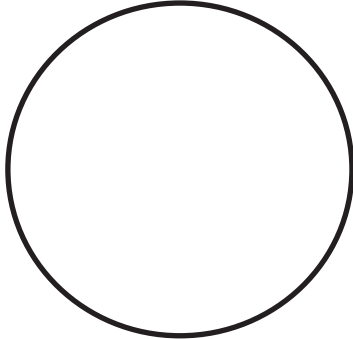


CIRCLE



**AREA =**

Square of diameter X 0.7854

*or*

Square of radius X 3.1416

**CIRCUMFERENCE =**

Diameter X 3.1416

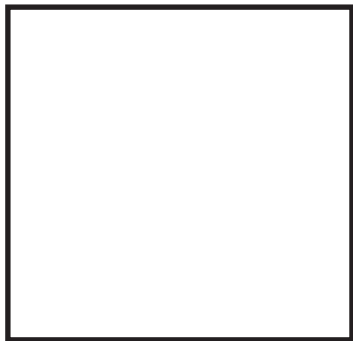
**DIAMETER =**

Circumference X 0.3183

**NOTES:**

- Doubling diameter increased area four times
- Tripling diameter increases area nine times etc.

SQUARE



**AREA =**

Square of side

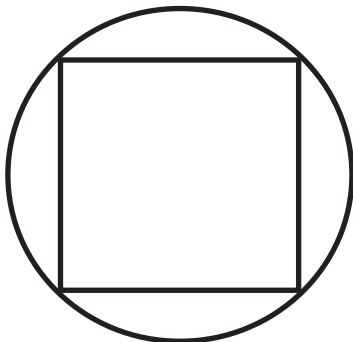
**DIAGONAL =**

Side X 1.4142

**SIDE =**

Diagonal X 0.7071

SQUARE INSCRIBED IN CIRCLE



**SIDE OF SQUARE =**

Diameter of circle X 0.7071

*or*

Circumference of circle X 0.2251

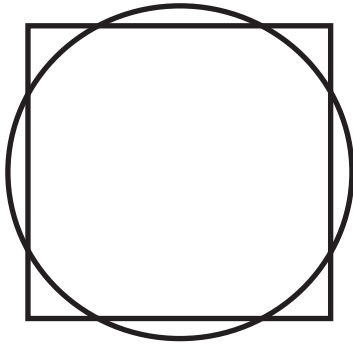
**DIAMETER OF CIRCLE =**

Side of square X 1.4142

**CIRCUMFERENCE OF CIRCLE =**

Side of square X 4.4429

**SQUARE & CIRCLE WITH EQUAL AREA**



**SIDE OF SQUARE =**  
Diameter of circle X 0.8862

**DIAMETER OF CIRCLE =**  
Side of square x 1.128

**CIRCUMFERENCE OF CIRCLE =**  
Side of square X 3.545

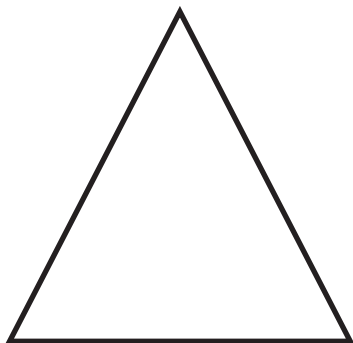
**RECTANGLE**



**AREA =**  
Length X width

**DIAGONAL =**  
Square root of sum of squares of width & length

**TRIANGLE**



**AREA =**  
Base X  $\frac{1}{2}$  of perpendicular height

**Area = A    Perimeter = P    Circumference = C**

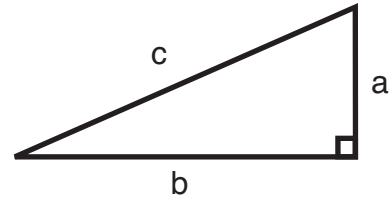
**Volume = V    Curved surface area = S**

**Altitude = h    Radius = r**

## RIGHT TRIANGLE

Pythagoras' theorem:

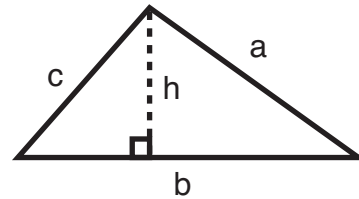
$$c^2 = a^2 + b^2$$



## TRIANGLE

$$A = \frac{1}{2}bh$$

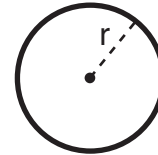
$$P = a + b + c$$



## CIRCLE

$$A = \pi r^2$$

$$C = 2\pi r$$



## SPHERE

$$V = \frac{4}{3} \pi r^3$$

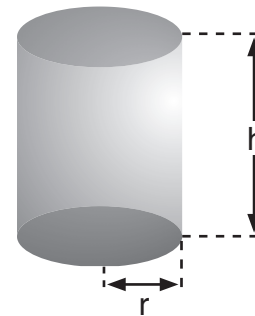
$$S = 4\pi r^2$$



## RIGHT CIRCULAR CYLINDER

$$V = \pi r^2 h$$

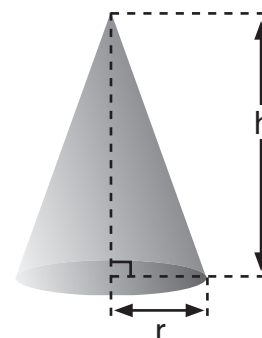
$$S = 2\pi r h$$



## RIGHT CIRCULAR CONE

$$V = \frac{1}{3} \pi r^2 h$$

$$S = \pi r \sqrt{r^2 + h^2}$$



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