

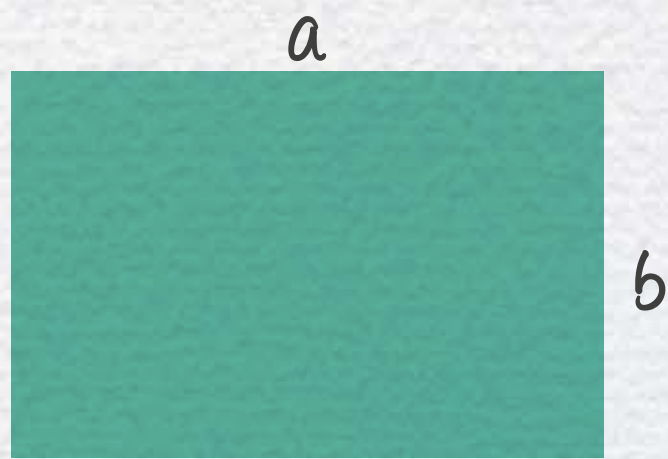
GEOMETRY – AREAS FOR 2 DIMENSIONAL SHAPES

SQUARE



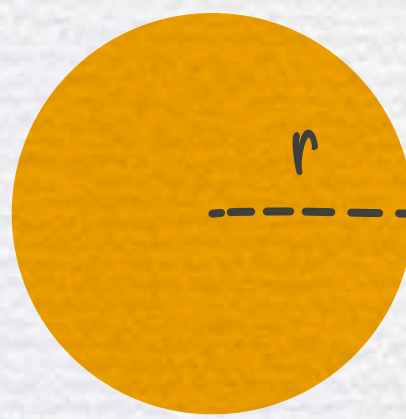
$$\text{Area} = a^2$$

RECTANGLE



$$\text{Area} = a \times b$$

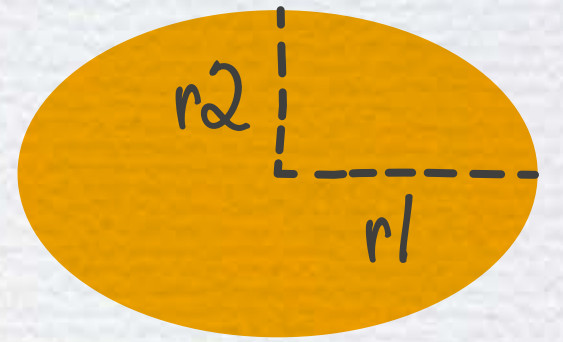
CIRCLE



$$\text{Area} = \pi r^2$$

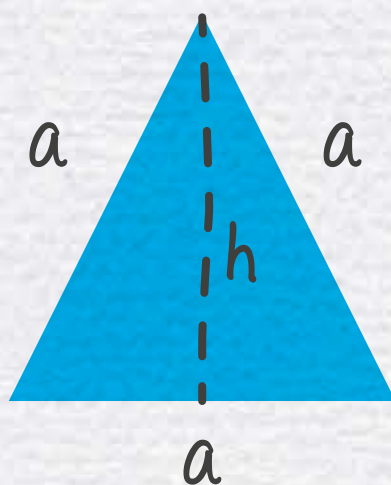
$$\pi = 22/7$$

ELLIPSE



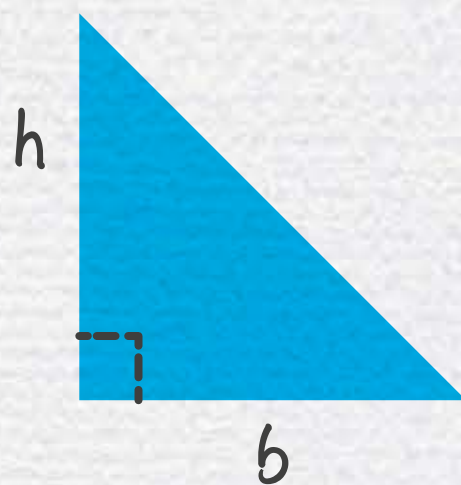
$$\text{Area} = \pi \times r1 \times r2$$

EQUILATERAL TRIANGLE



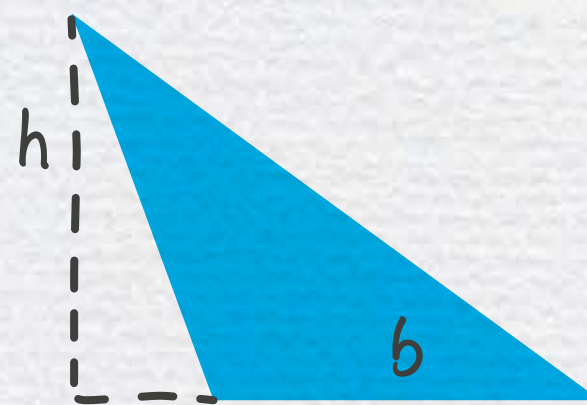
$$\text{Area} = \frac{\sqrt{3}}{4} \times a^2$$

RIGHT ANGLE TRIANGLE



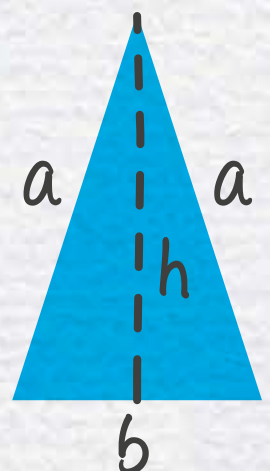
$$\text{Area} = \frac{1}{2} (b \times h)$$

OBTUSE ANGLE TRIANGLE



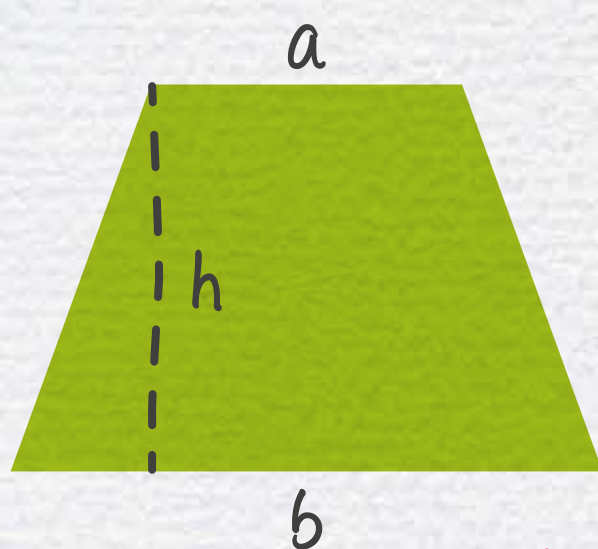
$$\text{Area} = \frac{1}{2} (b \times h)$$

ISOSCELES TRIANGLE



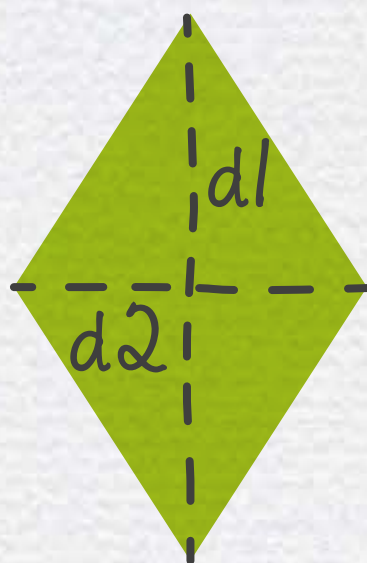
$$\begin{aligned} \text{Area} &= \frac{1}{2} (b \times h) \\ &= \frac{1}{2} \times a \times b \sin c \end{aligned}$$

TRAPEZIUM



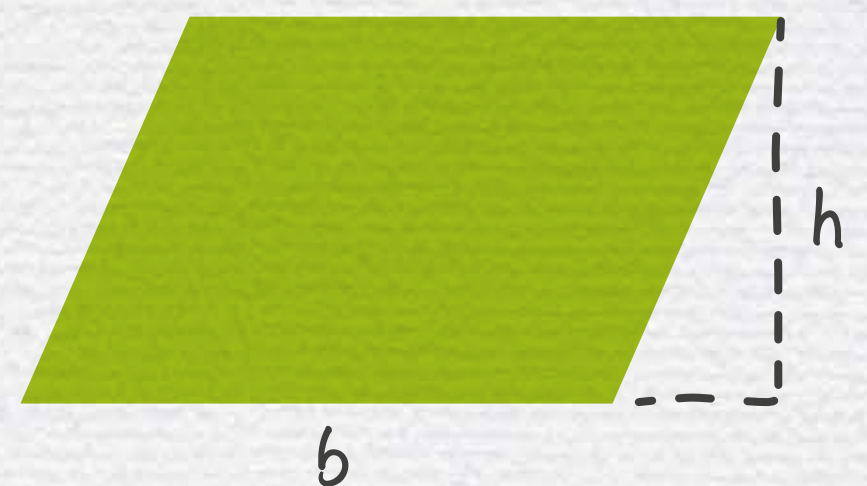
$$\text{Area} = \frac{1}{2} (a + b) \times h$$

RHOMBUS



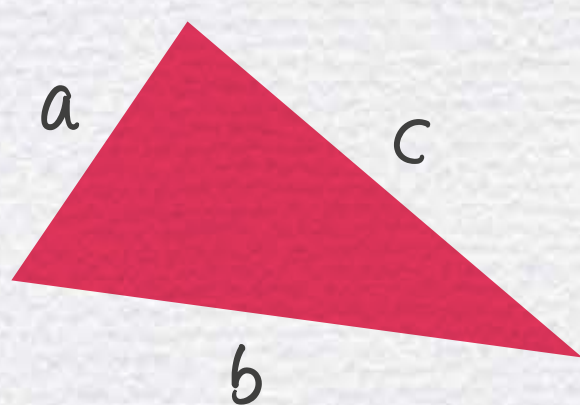
$$\text{Area} = \frac{1}{2} \times d1 \times d2$$

PARALLELOGRAM



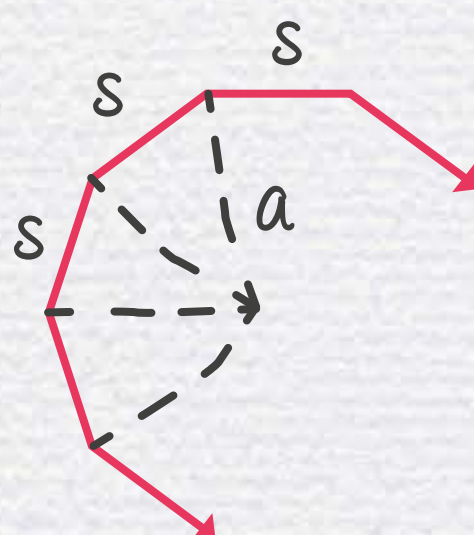
$$\text{Area} = b \times h$$

**SCALENE TRIANGLE:
LENGTH A, B, C**



$$\begin{aligned} \text{Area} &= \sqrt{s(s-a)(s-b)(s-c)} \\ \text{Where } s &= \frac{1}{2} (a+b+c) \end{aligned}$$

REGULAR N-GON



n = number of sides
 a = length from centre to corner

$$\text{Area} = \left(\frac{1}{2}\right) n \sin(360/n) a^2$$