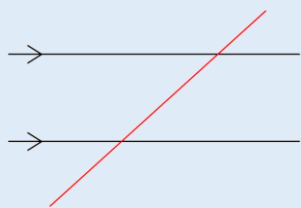


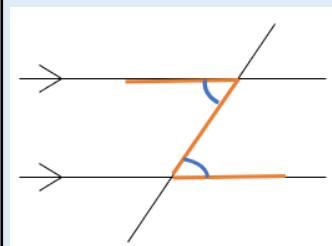
Angles In Parallel Lines

Parallel lines are always the same distance apart

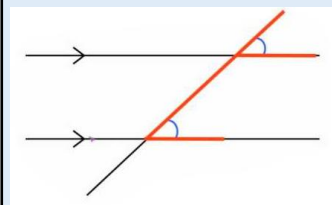
Transversal - a straight line that intersects the parallel lines



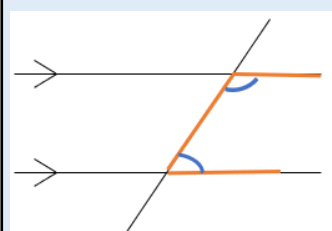
Alternate angles are equal



Corresponding angles are equal



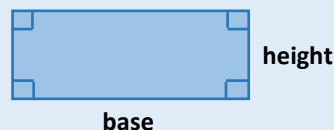
Co-interior angles sum to 180°



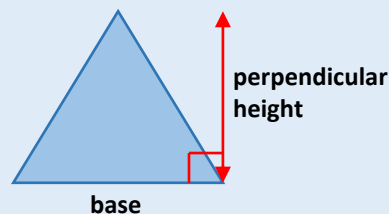
Area

Perpendicular – two lines that meet at a right angle (90°)

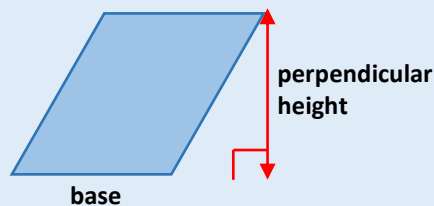
Area of a rectangle = base x perpendicular height



Area of a triangle = $\frac{\text{base} \times \text{perpendicular height}}{2}$

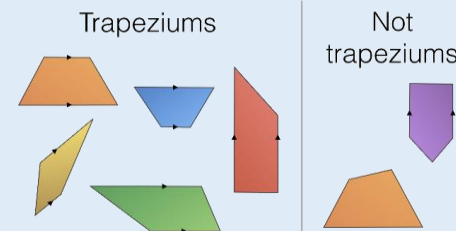


Area of a parallelogram = base x perpendicular height



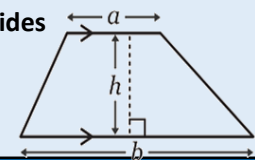
Trapezia

Trapezium – a quadrilateral with one pair of parallel sides.

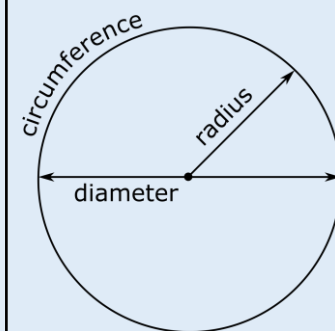


Area of a trapezium = $\frac{1}{2}(a + b)h$

where **a** and **b** are the parallel sides and **h** is the height.



Circles



The diameter is **double** the radius.

Pi (π) \approx 3.14
Pi is a constant that links circumference and diameter.

Circumference = $\pi \times \text{diameter}$

Area of a circle = $\pi \times \text{radius}^2$