## Y7 Maths Knowledge Organiser Topic 12: Constructions and classifying 2D shapes



Triangle properties


Equilateral

- 3 equal sides
- 3 equal angles
- 3 lines of symmetry


Isosceles


Scalene

- 2 equal sides
- 2 equal base angles
- 1 line of symmetry

Constructing triangles
Side, angle, side


## Quadrilateral properties



- 4 equal sides
- Opposite sides are parallel
- 4 right angles
- 4 lines of symmetry

- 4 equal sides
- Opposite sides are parallel
- Opposite angles are equal
- 2 lines of symmetry

- Opposite sides are equal
- Opposite sides are parallel
- 4 right angles
- 2 lines of symmetry

- 2 pairs of equal sides
- Opposite sides are parallel
- Opposite angles are equal
- No lines of symmetry


2 pairs of equal sides
2 equal angles

- 1 line of symmetry

- One pair of parallel sides:



## Coordinates in 4 quadrants

$2^{\text {nd }}$ quadrant. $x$ is
negative and $y$ is positive
coordinate $=(-3,2)$
$1^{\text {st }}$ quadrant. $x$ and $y$ are both positive
coordinate $=(3,4)$

$3^{\text {rd }}$ quadrant. $x$ and $y$ are both negative

$4^{\text {th }}$ quadrant. $x$ is positive and $y$ is negative Coordinate $=(1,-5)$

