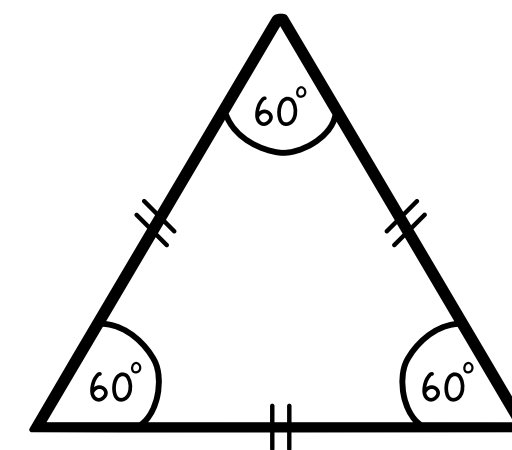
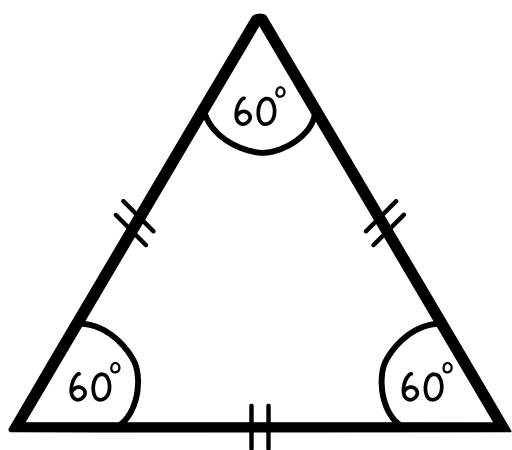
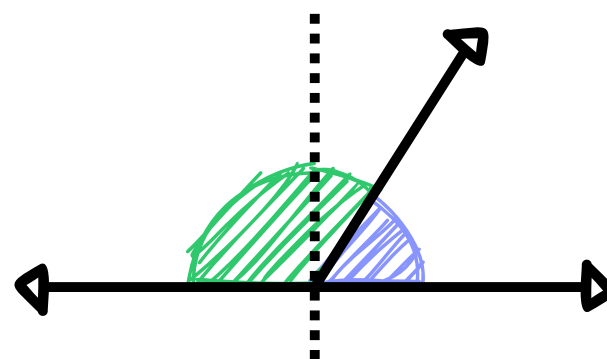


ANGLES

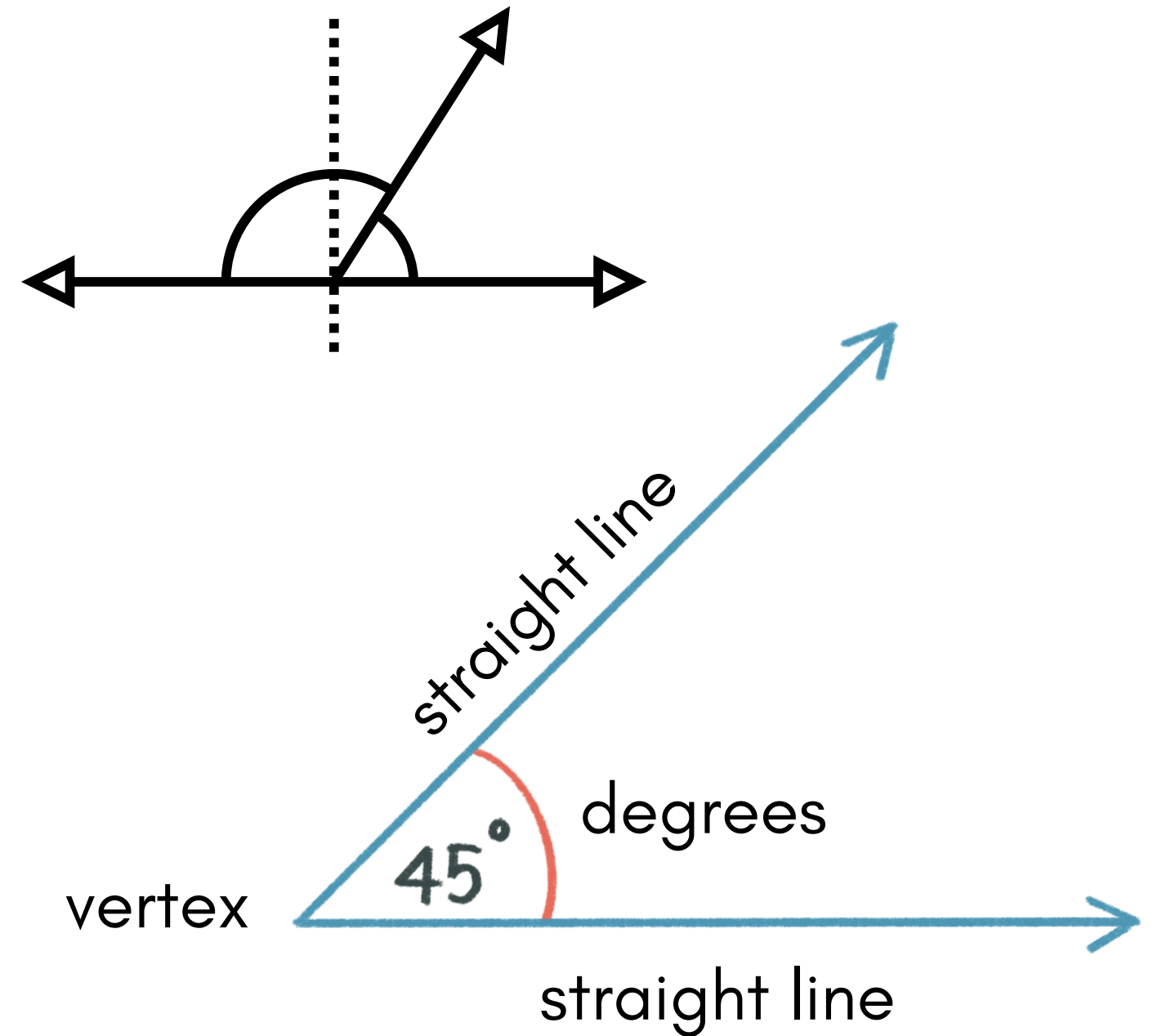


MATHEMATICS IS FUN

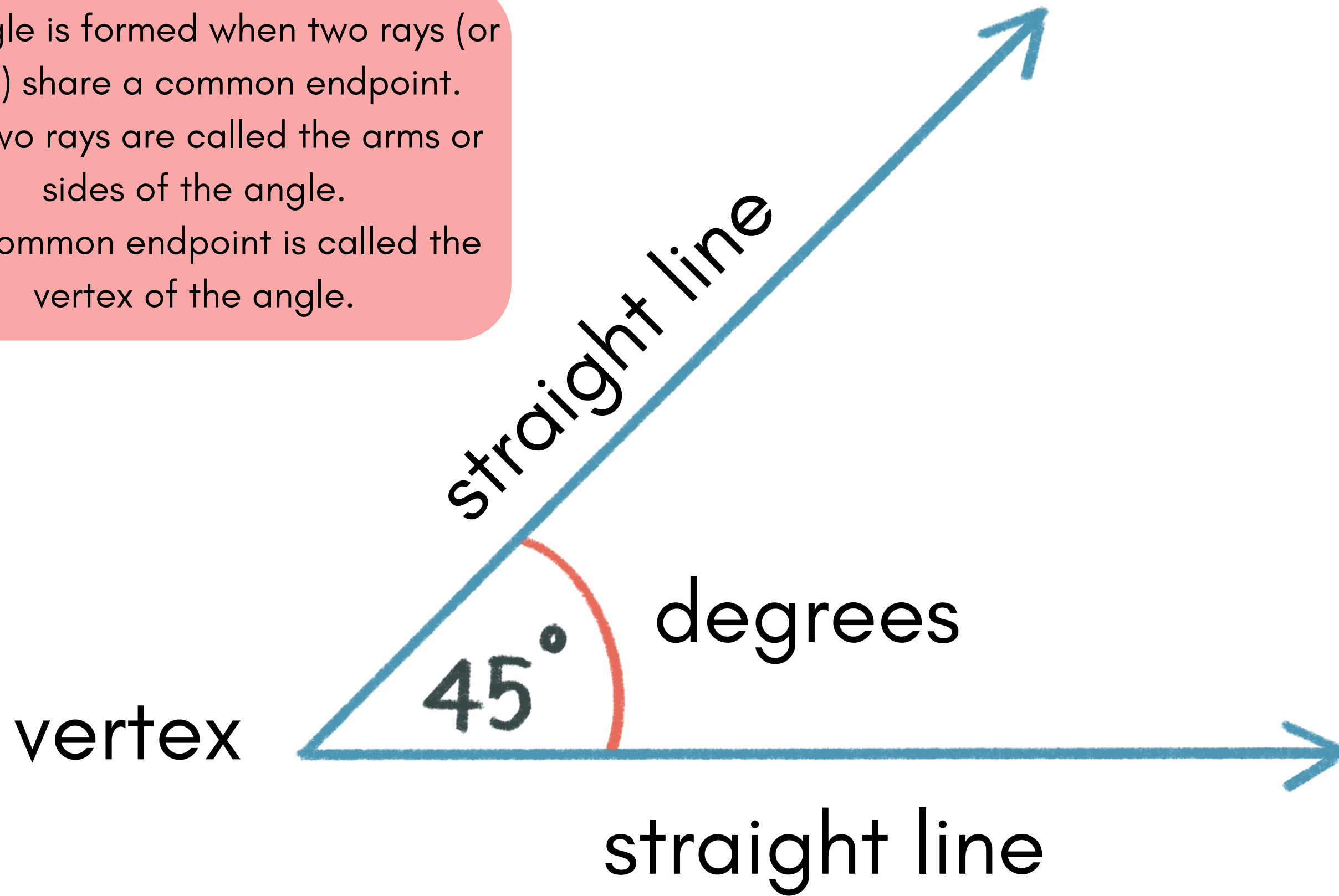


WHAT ARE ANGLES?

- The space between two intersecting straight lines, at the point in which they meet.
- The point where they meet is called the vertex.
- Angles are measured in degrees.



An angle is formed when two rays (or lines) share a common endpoint. The two rays are called the arms or sides of the angle. The common endpoint is called the vertex of the angle.



TYPES OF ANGLES

smallest



largest

Acute ($>0, <90$ degrees)

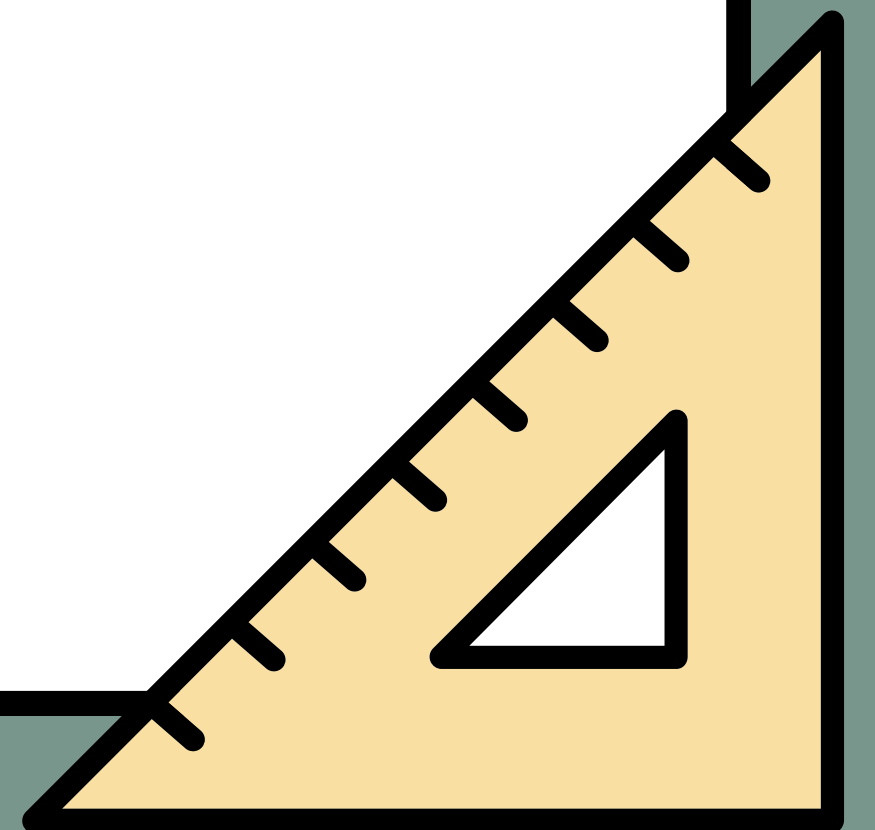
Right (90 degrees)

Obtuse ($>90, <180$ degrees)

Straight (180 degrees)

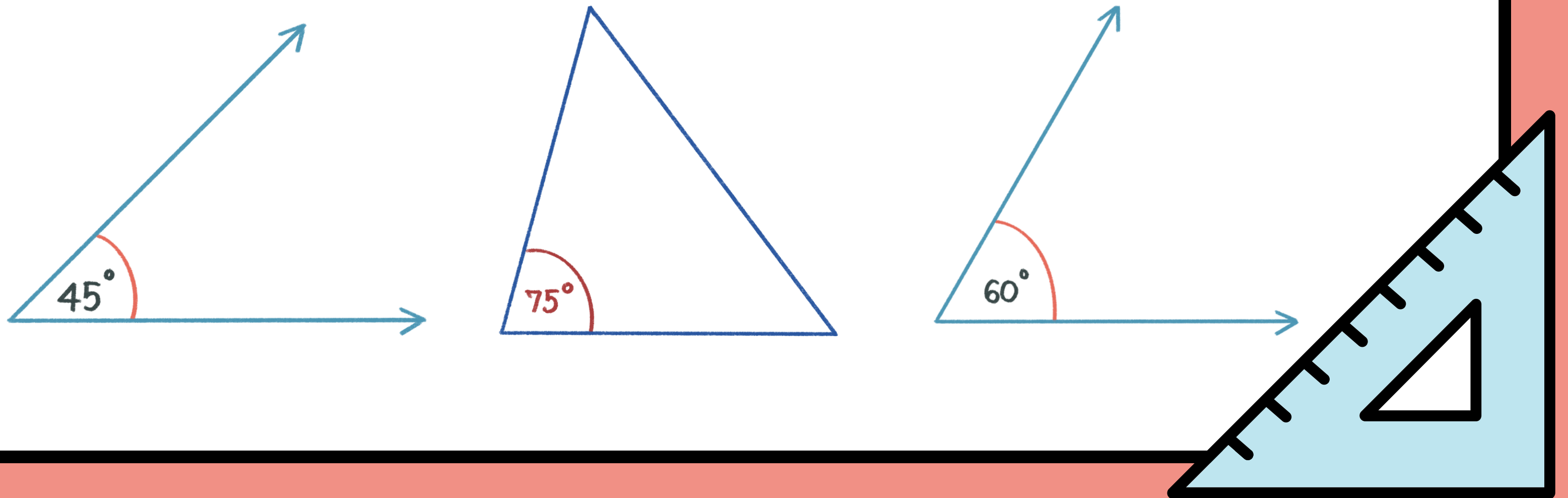
Reflex ($>180, <360$ degrees)

Revolution (360 degrees)



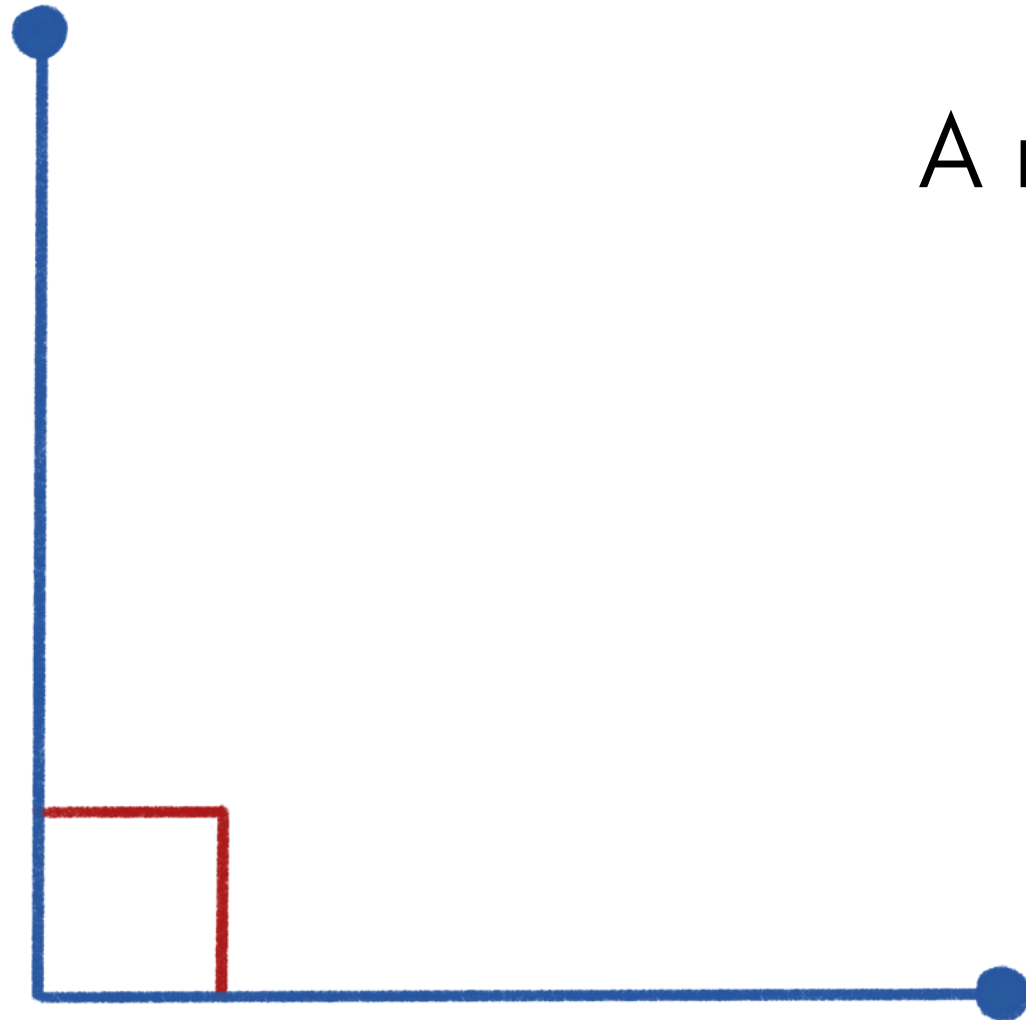
ACUTE ANGLES

The internal measurement of two straight lines, where the angle measures more than 0 but less than 90.

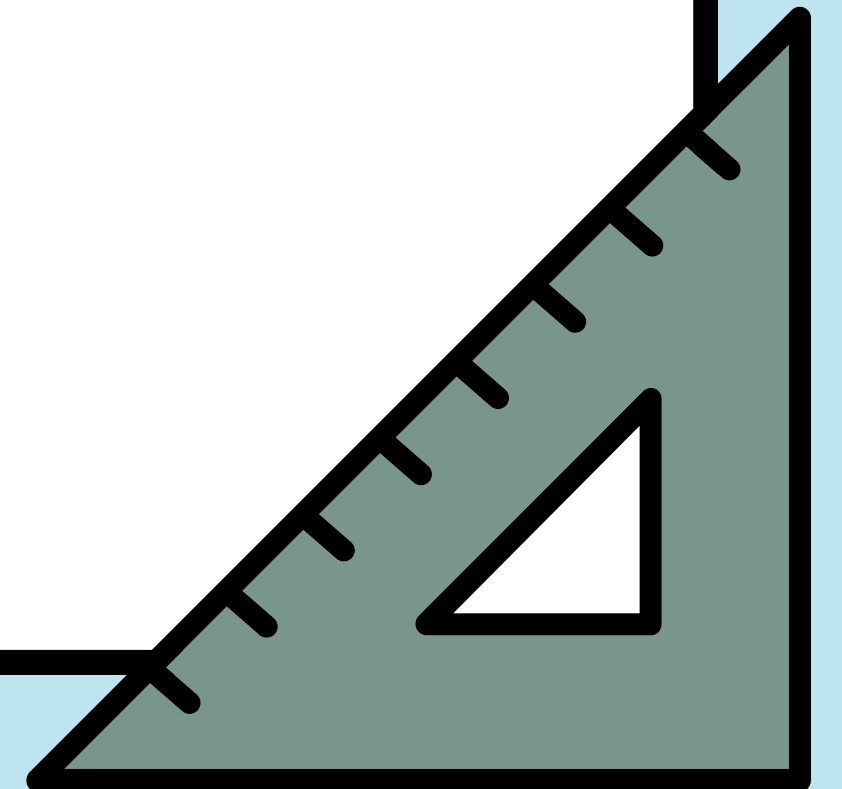
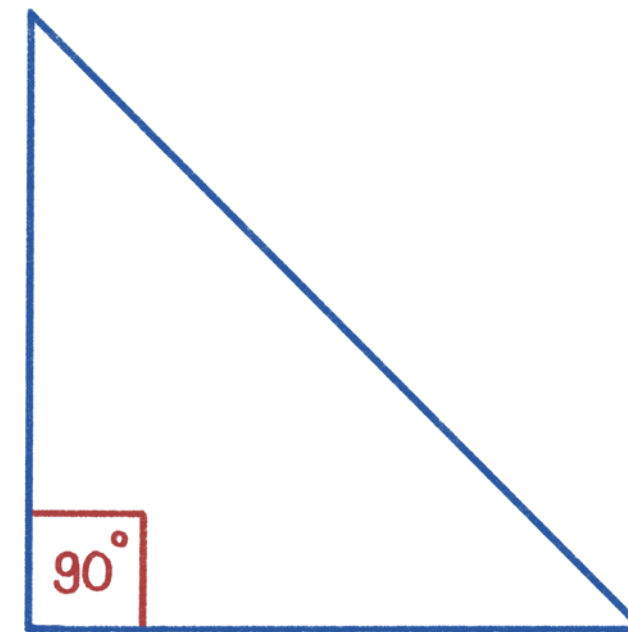


RIGHT ANGLES

A right angle is equal to 90°

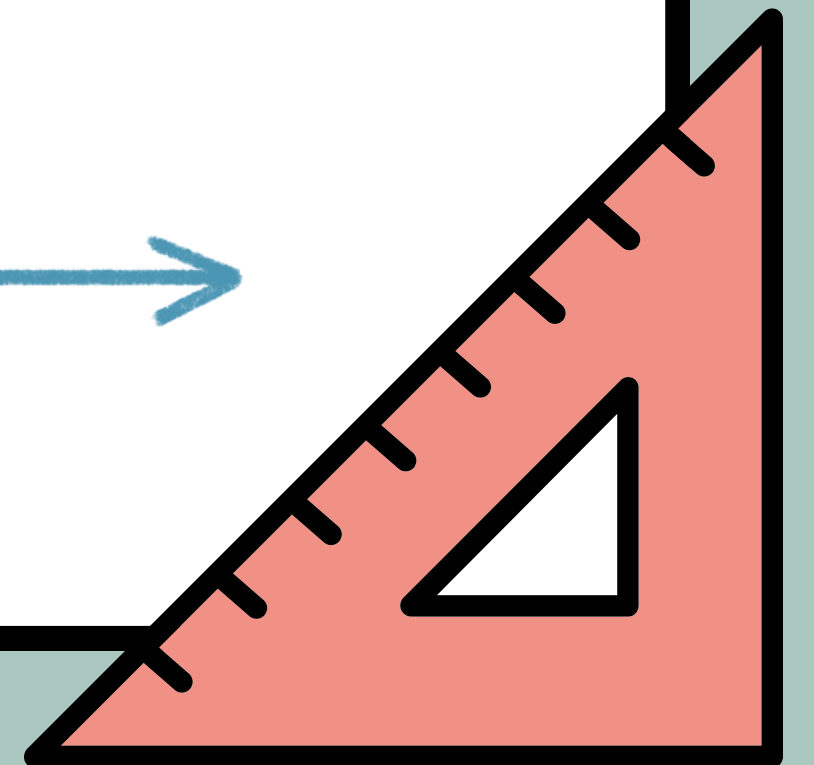
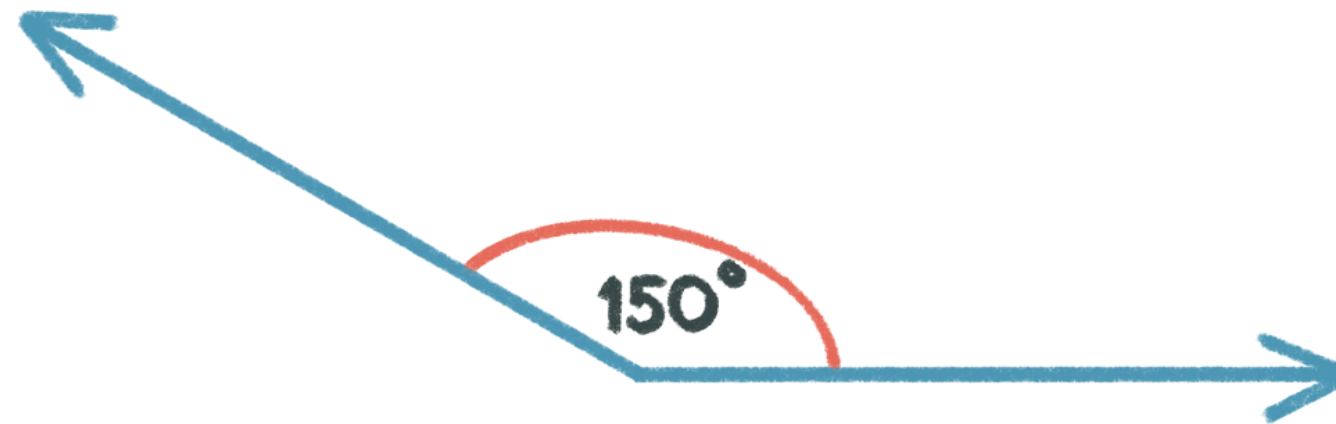
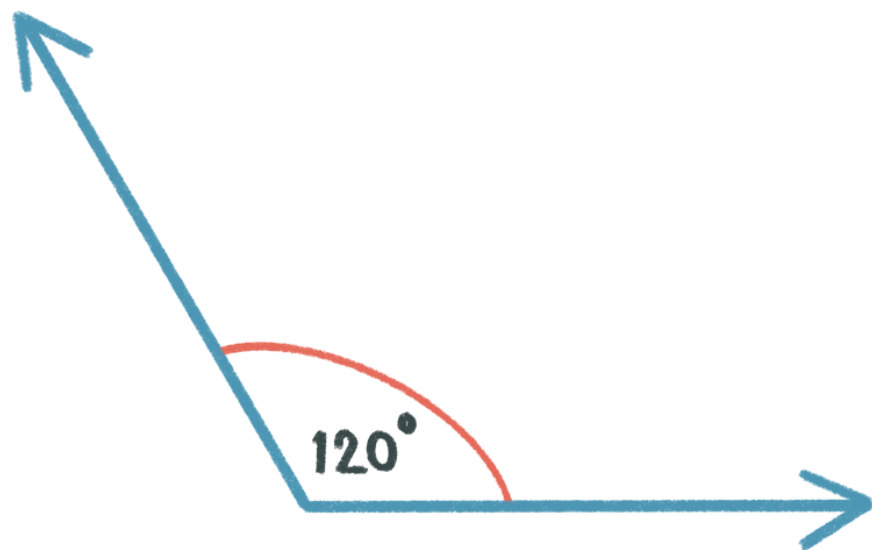


right



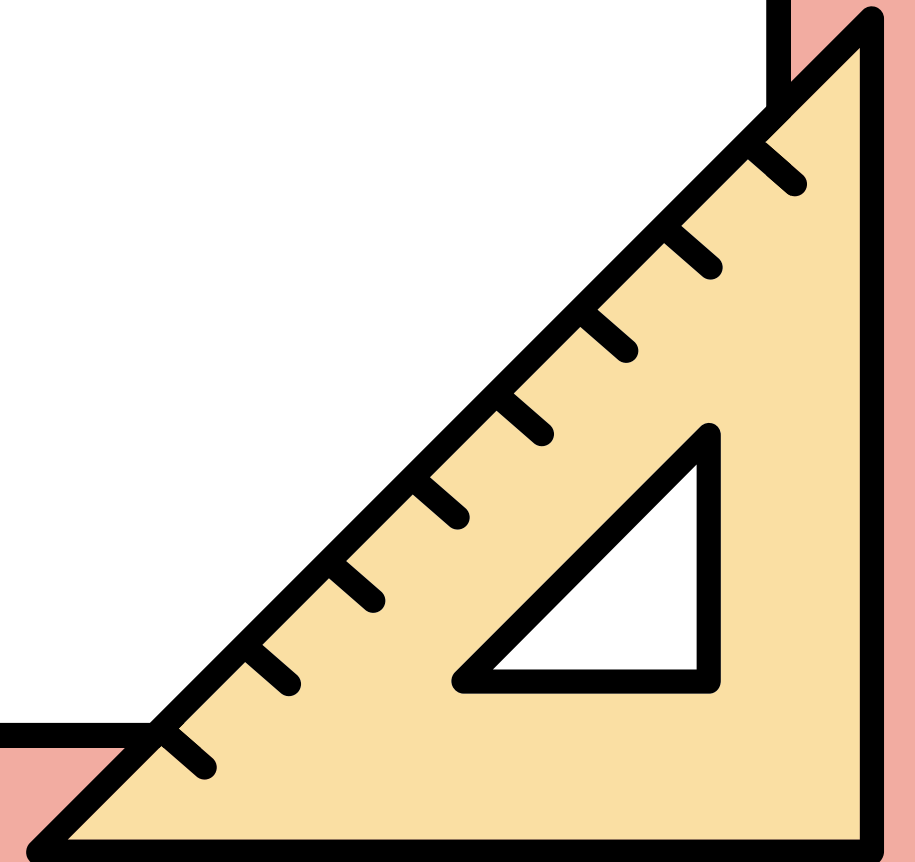
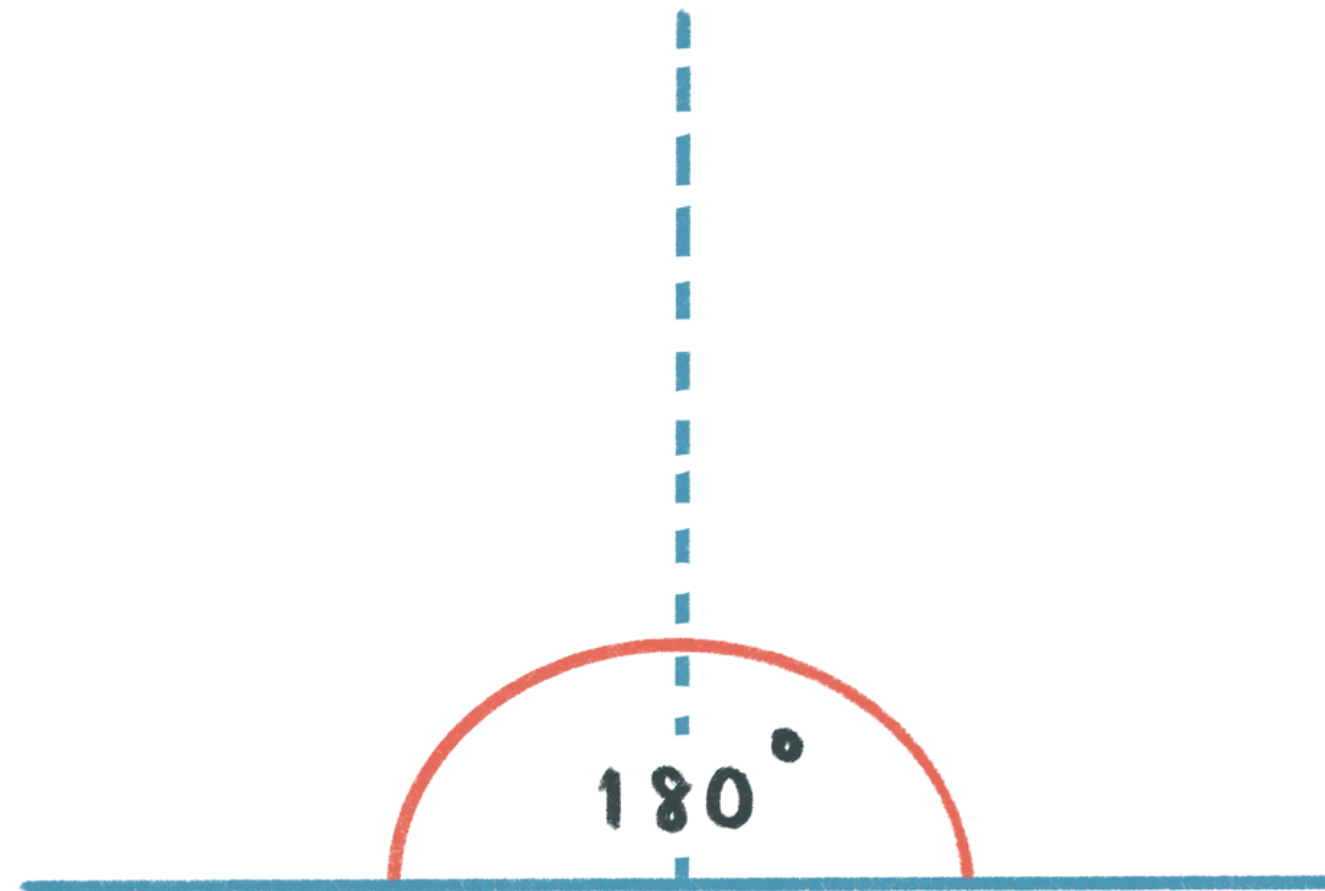
OBTUSE ANGLES

The internal measurement of two straight lines, where the angle measures more than 90 but less than 180.



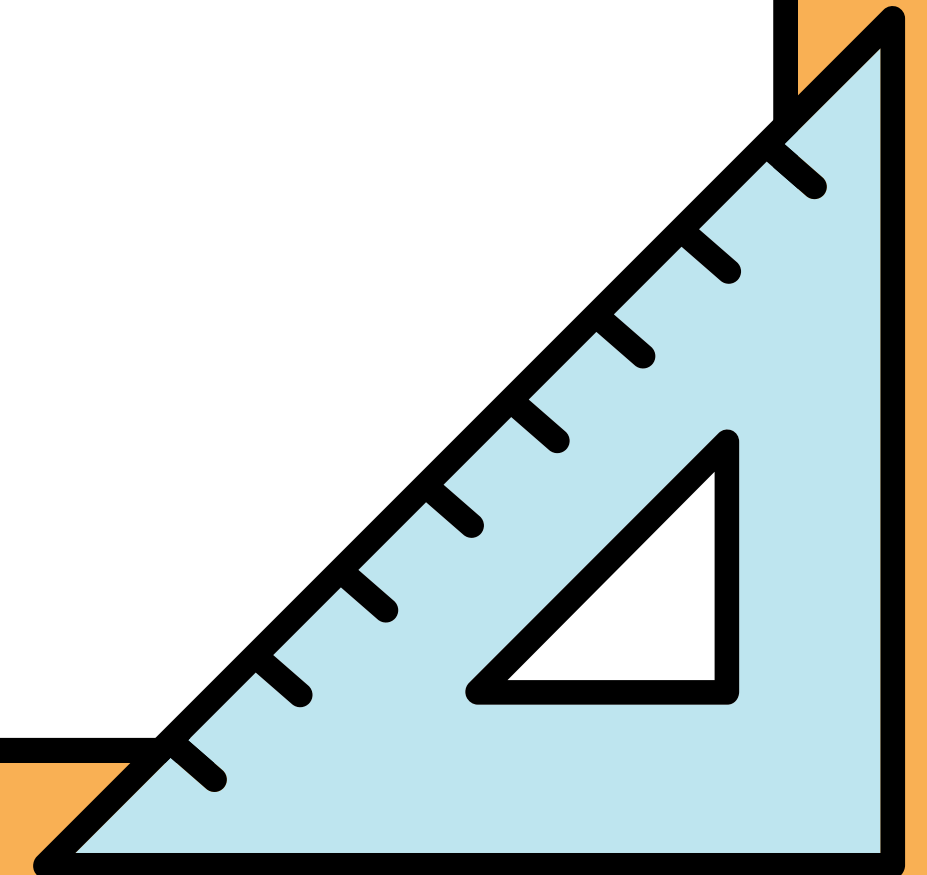
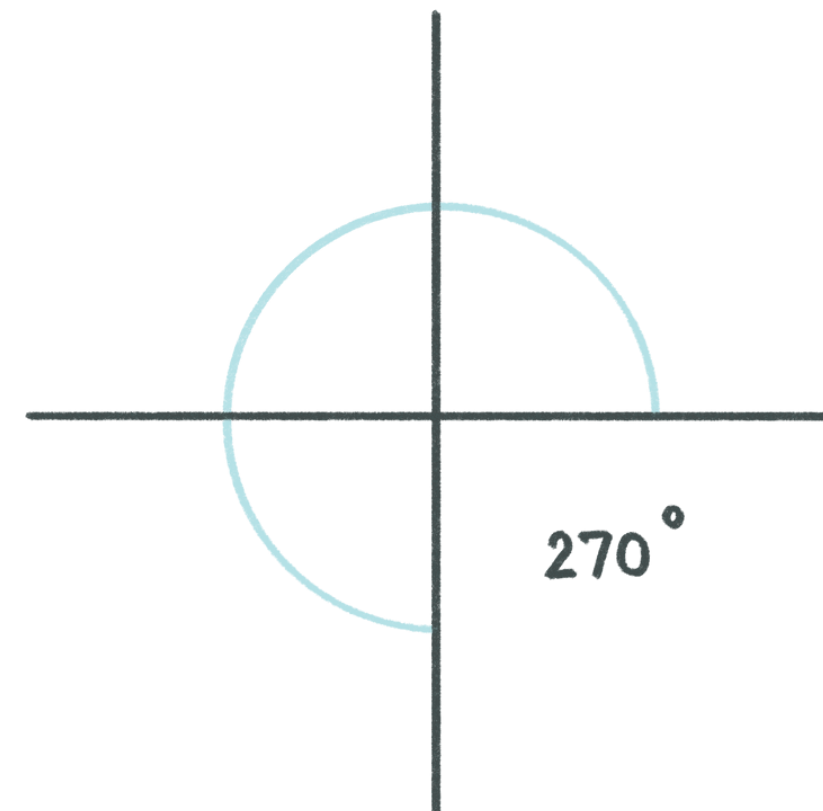
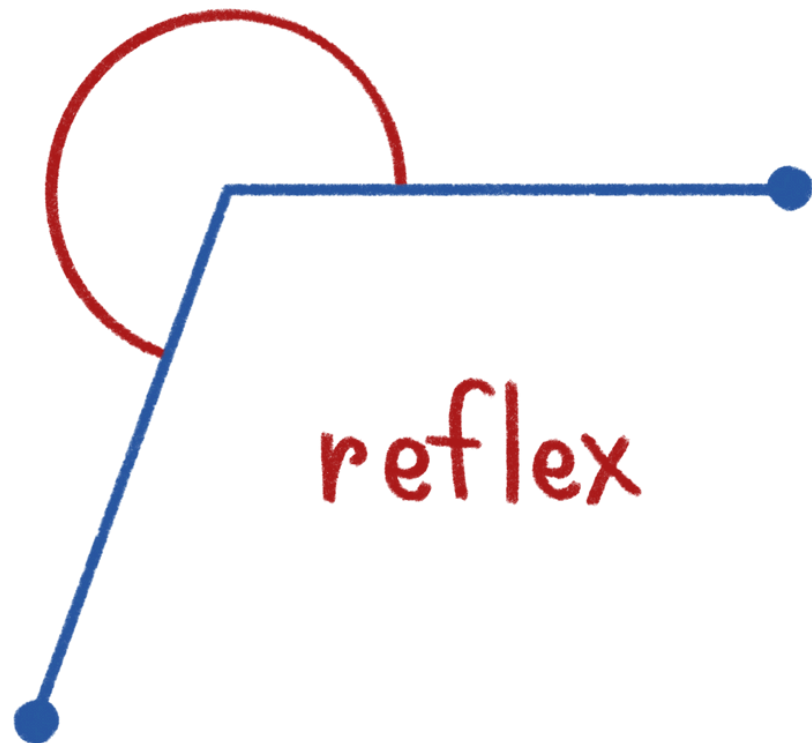
STRAIGHT ANGLES

A straight angle is equal to 180°



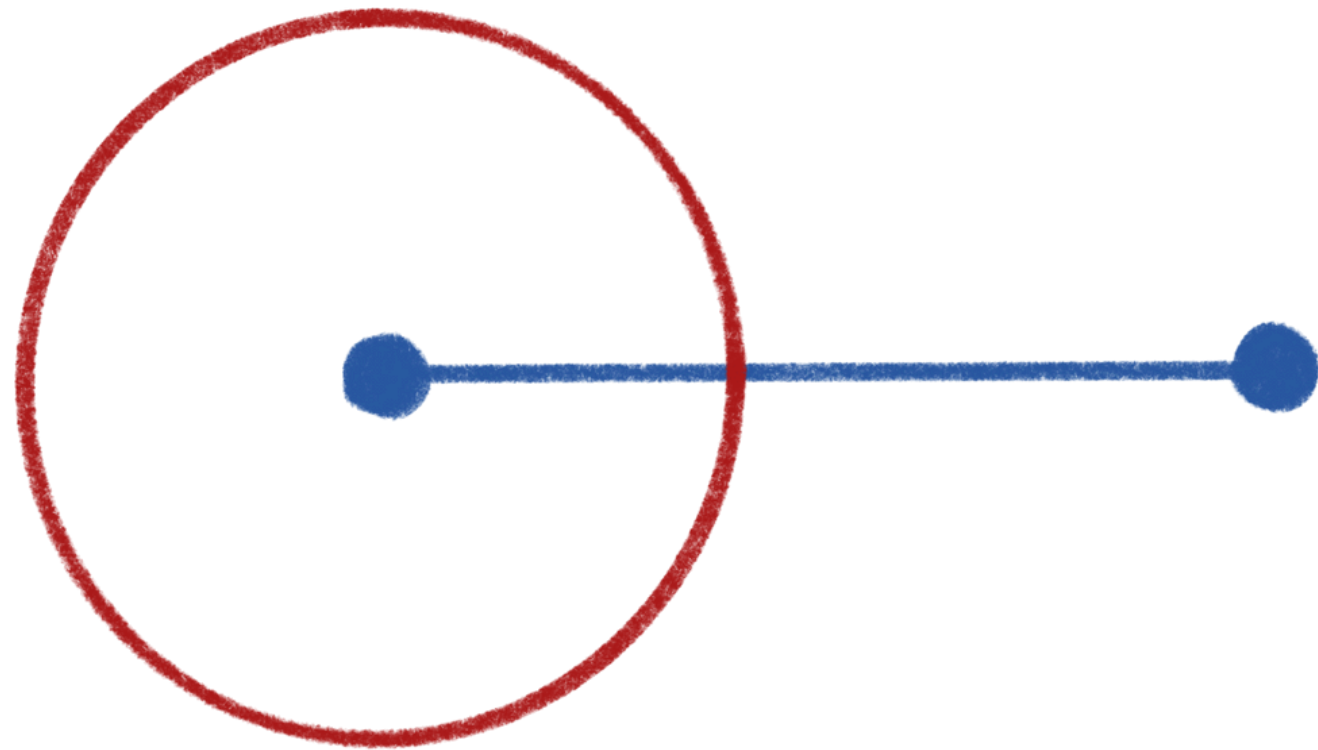
REFLEX ANGLES

The external measurement of two straight lines, where the angle measures more than 180 but less than 360.

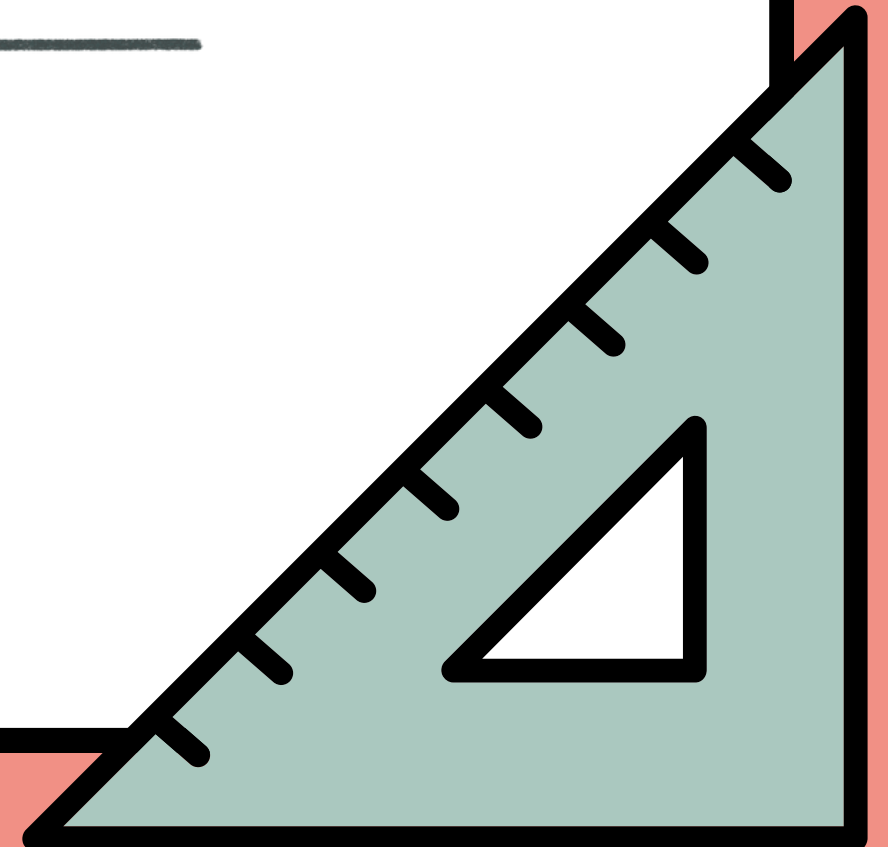
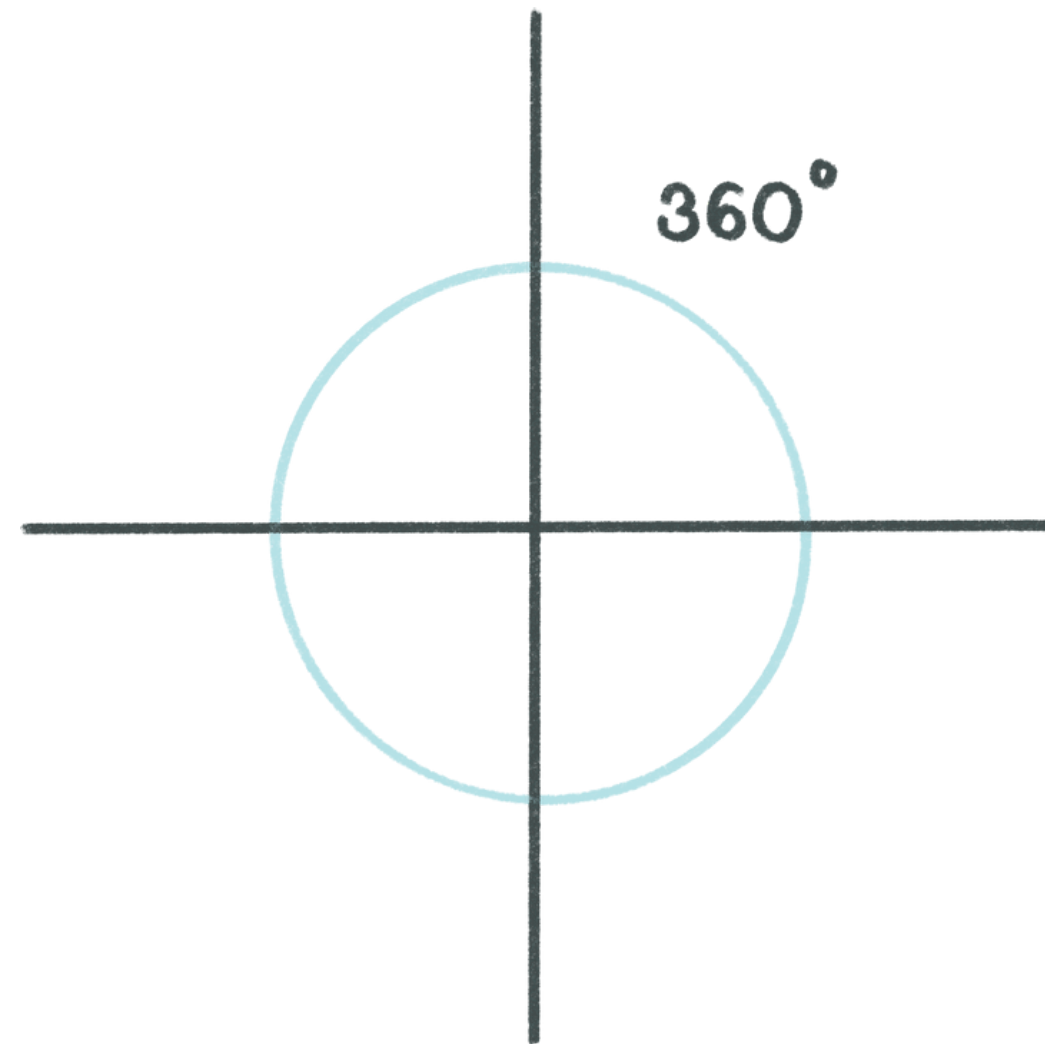


REVOLUTION ANGLES

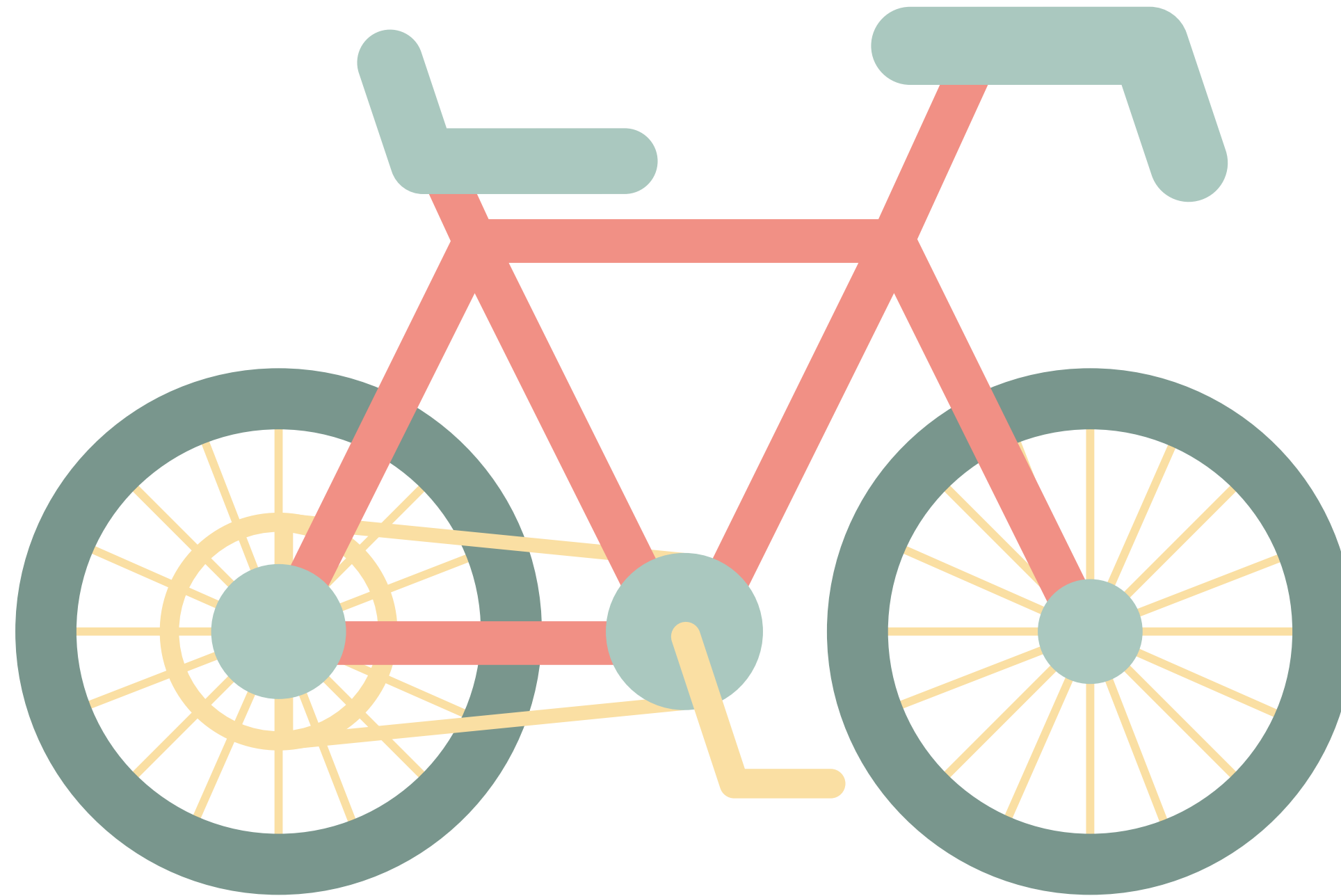
A full rotation of 360°



full rotation



What types of angles can you see?



POLYGON

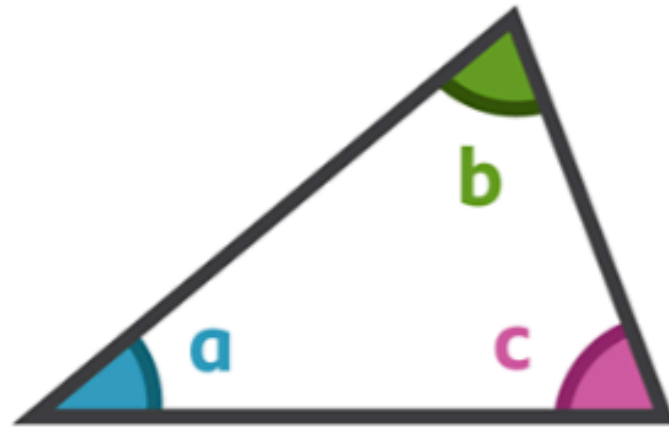
What is a polygon?

Polygons are two dimensional shapes with straight sides.

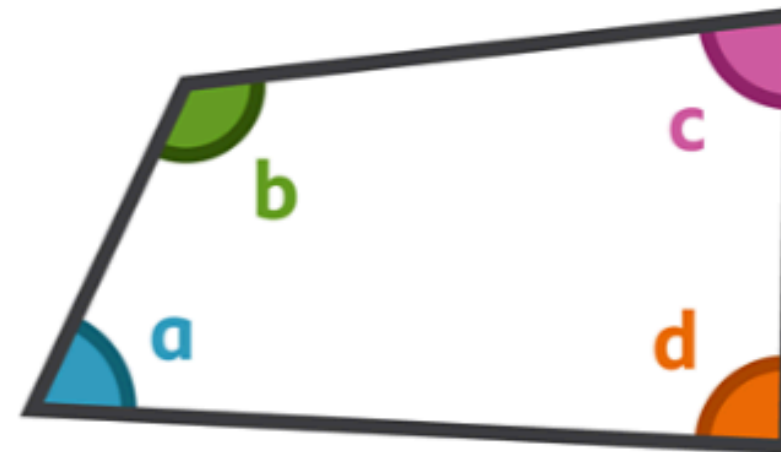
They can be described by the number of sides they have and whether the shape is regular or irregular.

Where the straight sides of the polygon meet, an angle is created. Angles are measured in degrees ($^{\circ}$).

The internal angles of a triangle add up to 180° and the internal angles of a quadrilateral add up to 360° .



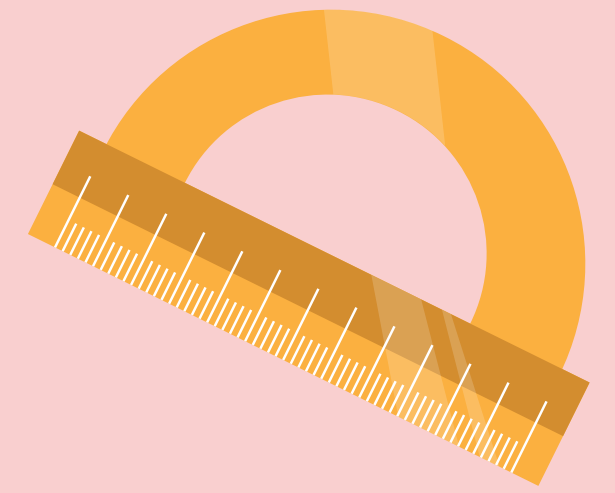
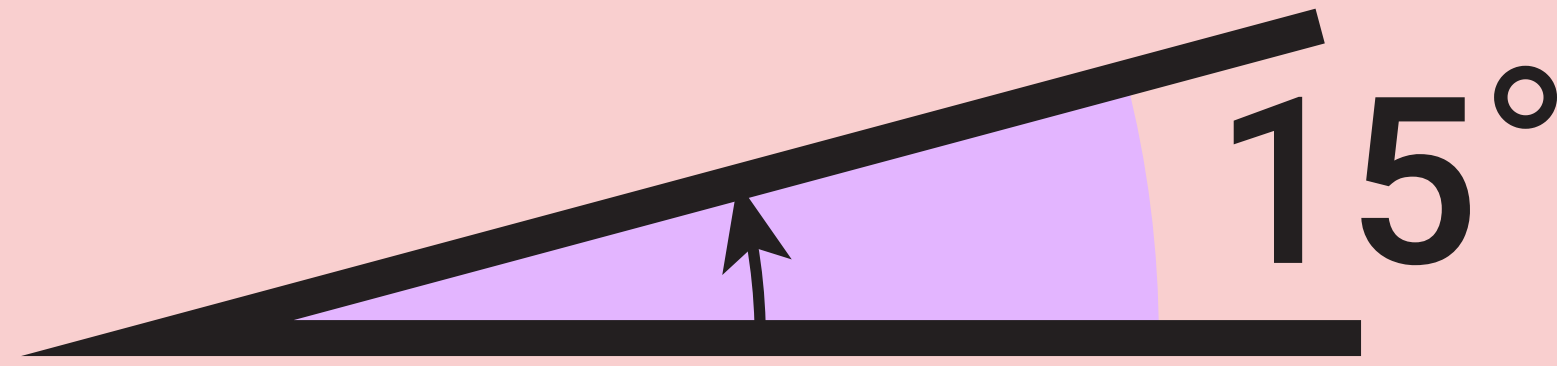
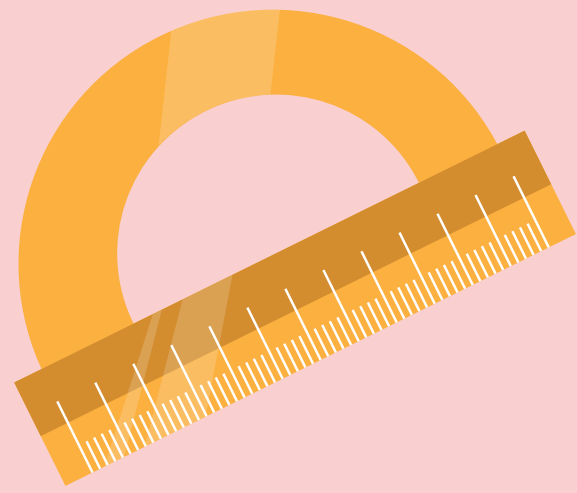
$$a + b + c = 180^{\circ}$$



$$a + b + c + d = 360^{\circ}$$

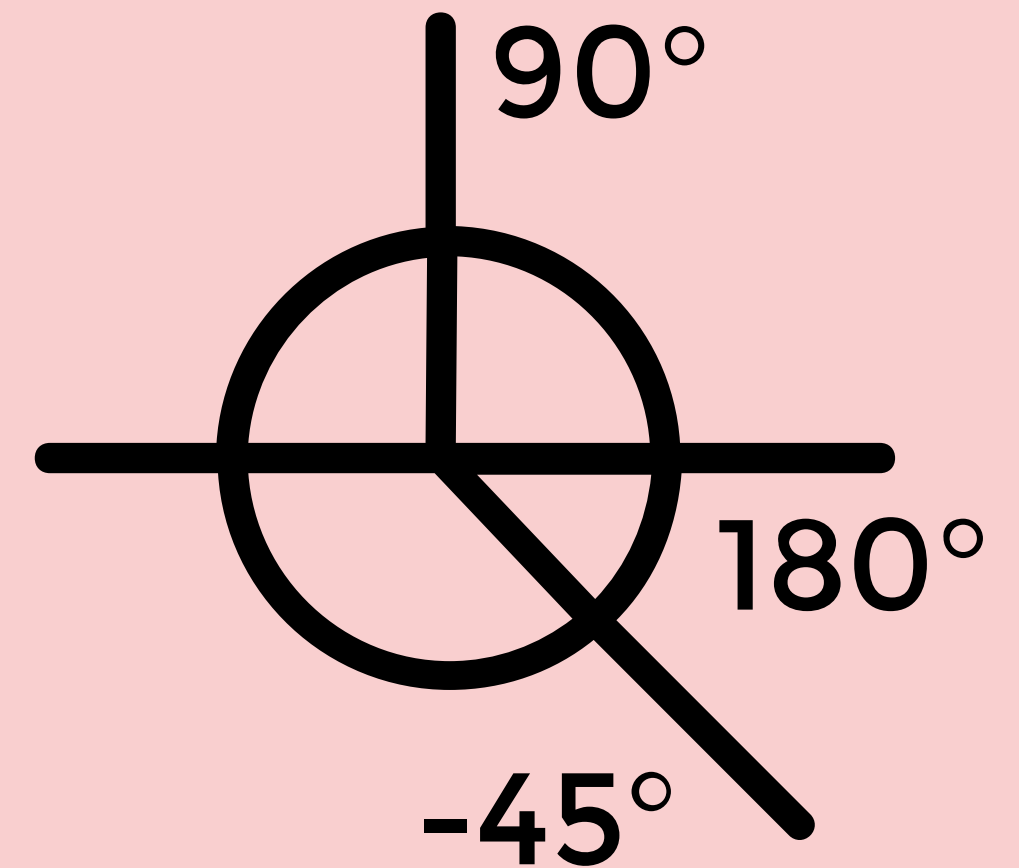
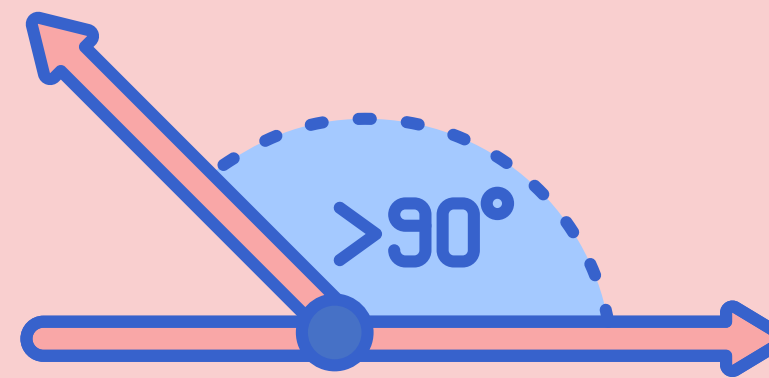
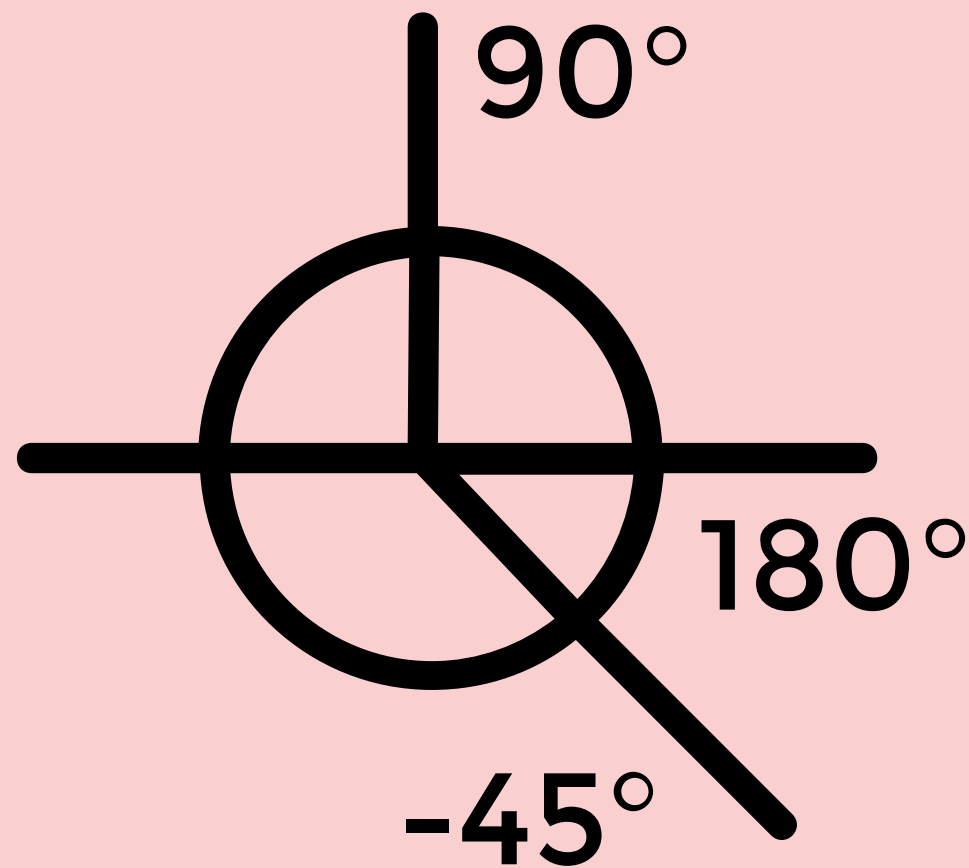
What types of angles can you see?





LEARNING ANGLES

IS FUN !



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