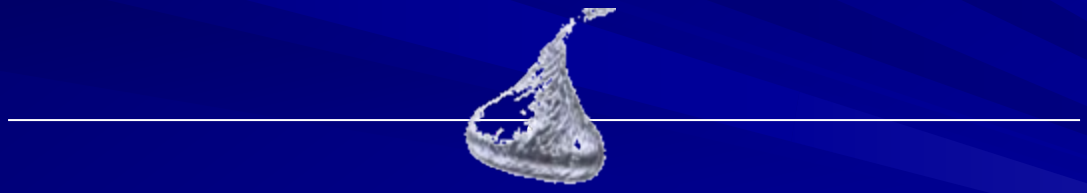
Geometry Vocabulary

What is Geometry?

- Geometry is the study of shapes
- They studied Geometry in Ancient Mesopotamia & Ancient Egypt
- Geometry is important in the art and construction fields

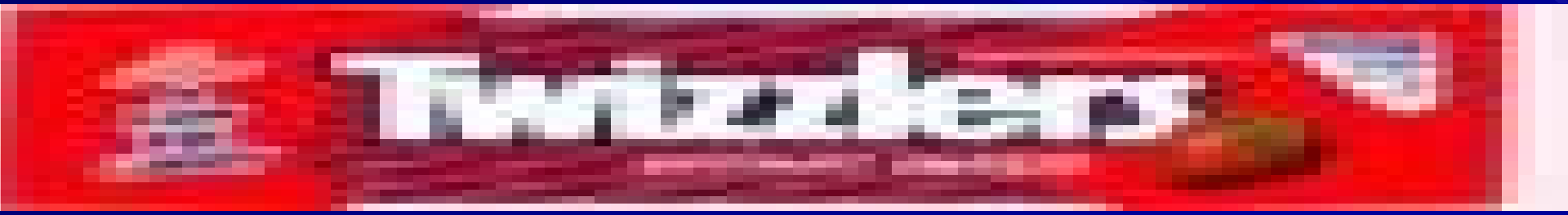
POINT

- A POINT is an exact location on a graph, shape or in “space”.
- The Hershey Kiss is a POINT on the line



LINE

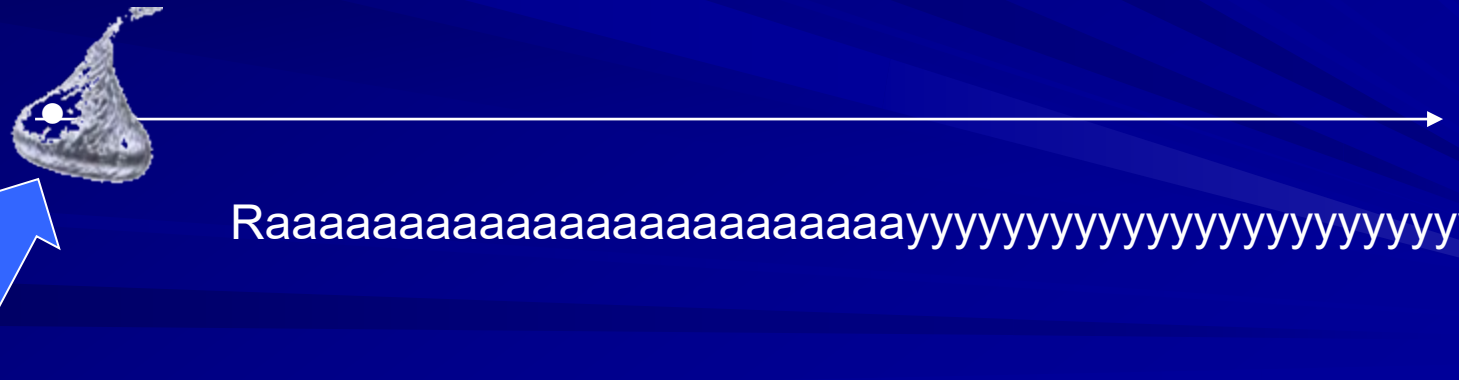
- A LINE goes in opposite directions and never, never, never ends.



Imagine if this Twizzler went on forever and ever and ever and ever and ever and ever

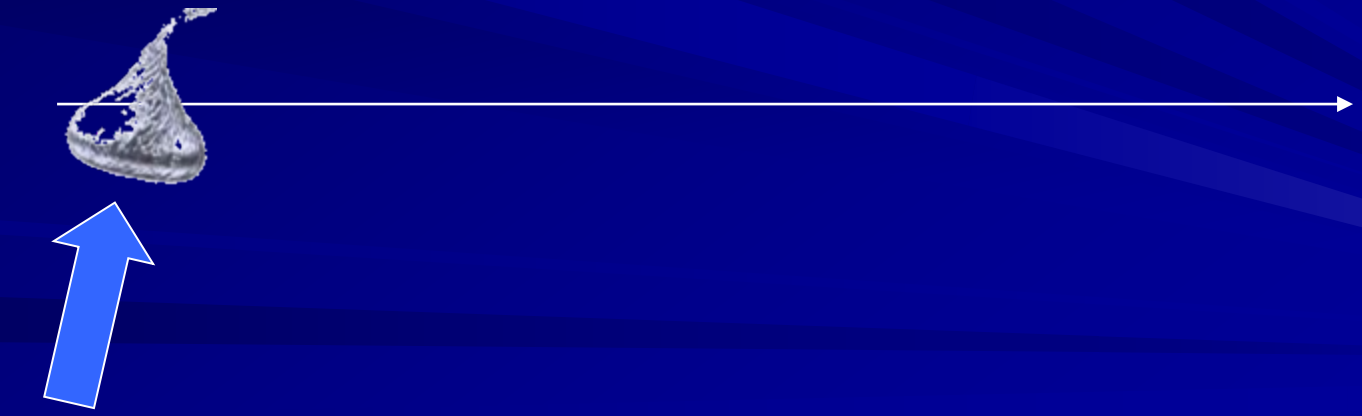
RAY

- A RAY is part of a line, but it has one endpoint and the other end keeps going.



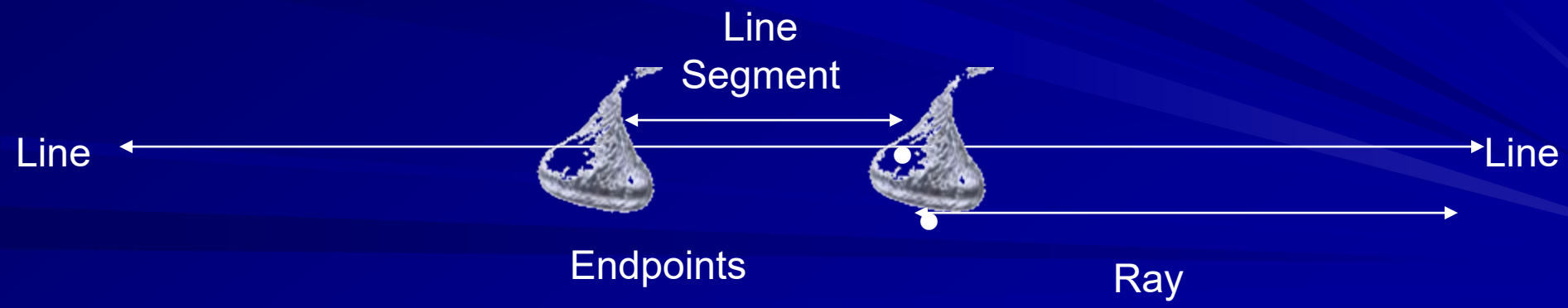
ENDPOINT

- An ENDPOINT is a point at the end of a ray or line segment.



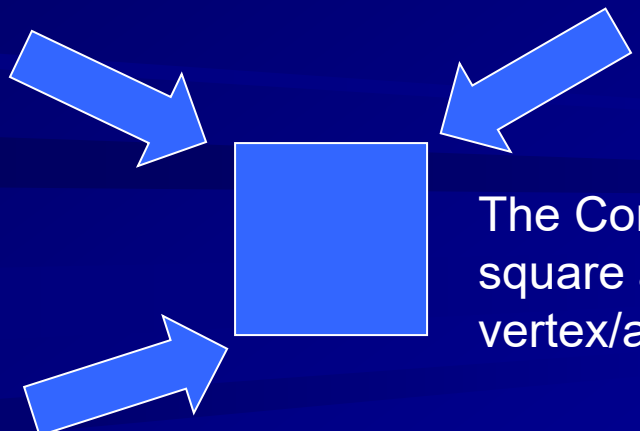
LINE SEGMENT

- A LINE SEGMENT is part of a ray or line.
- It has two endpoints

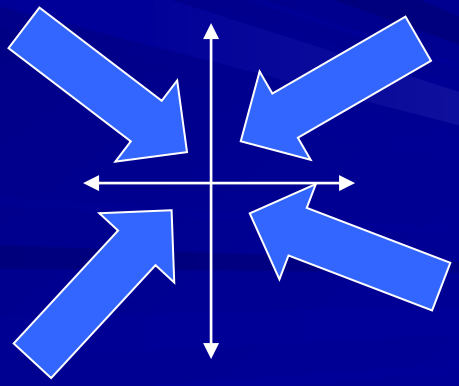


VERTEX

- A VERTEX is a fancy name for “angle”
- Two rays or lines that have the same endpoint make a VERTEX/angle
- VERTEX/angles are measured in “degrees”



The Corners of a square are its vertex/angles



When two lines cross, they make vertex/angles

CONGRUENT

- CONGRUENT means the “same”
- CONGRUENT LINE SEGMENTS means two line segments are the same
- CONGRUENT Vertex/Angles means two angles are the same

The Hershey & Crunch Bar are a Congruent size

VERTICAL LINE

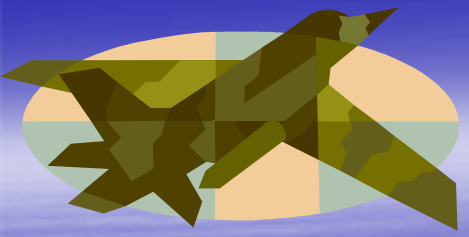
- A VERTICAL LINE goes up & down

The candy bars are vertical

HORIZONTAL LINE

- A HORIZONTAL LINE goes “across” (left and right)

The candy bars are Horizontal

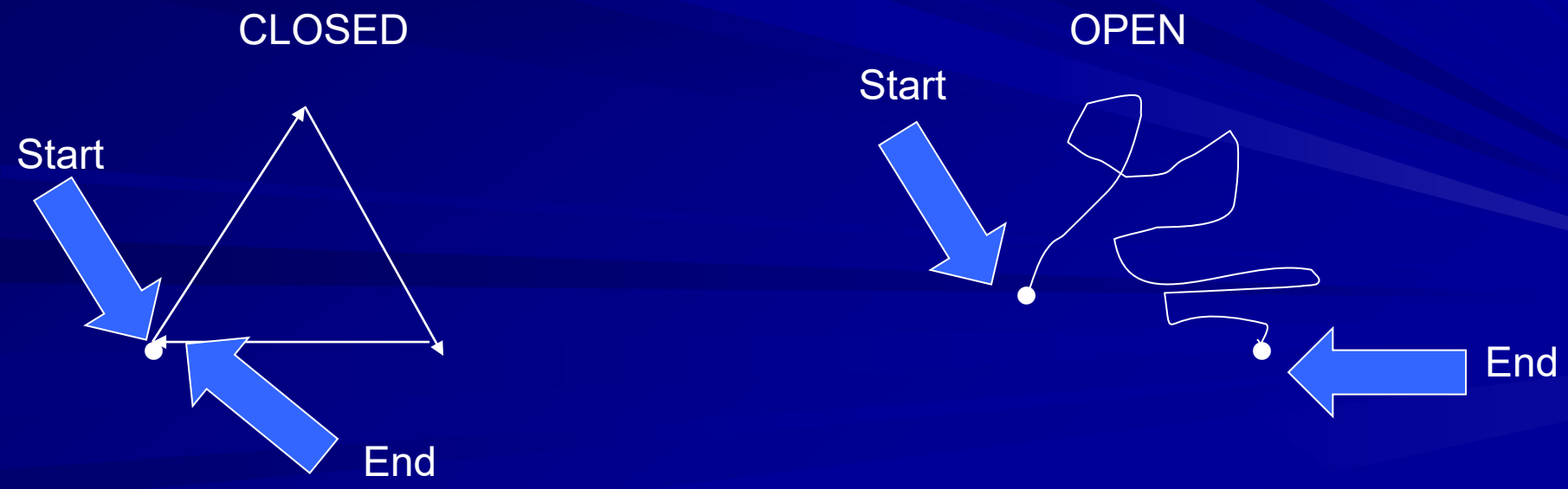


PLANE

- A PLANE (no, not the one that flies!) is a flat surface that goes on forever in all directions.
- Imagine sitting on a row boat in the middle of the ocean. No matter which way you look…all you see is water…forever.

OPEN & CLOSED FIGURES

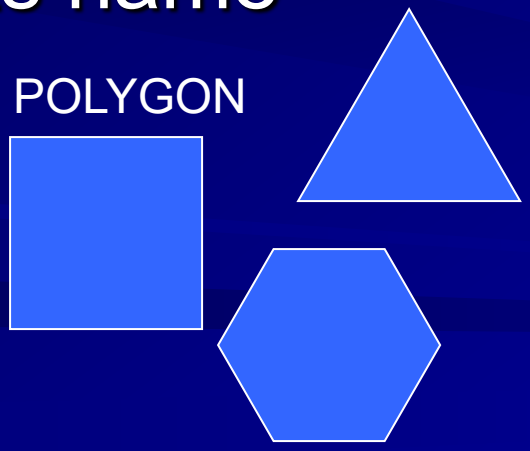
- A CLOSED FIGURE/SHAPE starts and ends at the same point.
- An OPEN FIGURE/SHAPE does NOT start and end at the same point.



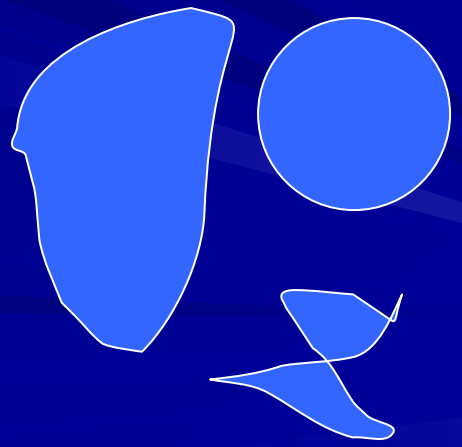
POLYGON

- A POLYGON is a “closed” shape
- A POLYGON is made up of line segments that do not cross.
- The number of sides gives a POLYGON its name

POLYGON

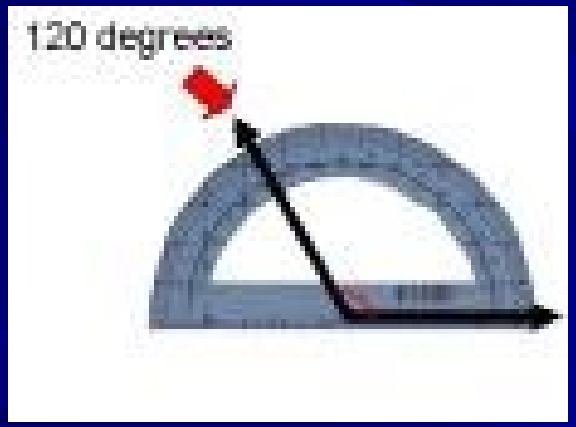


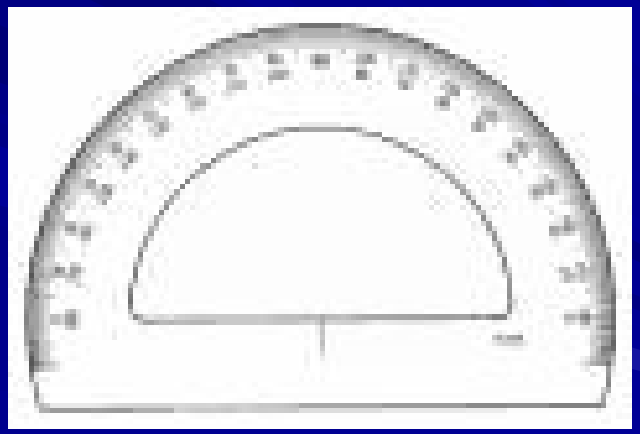
NOT POLYGON



PROTRACTOR

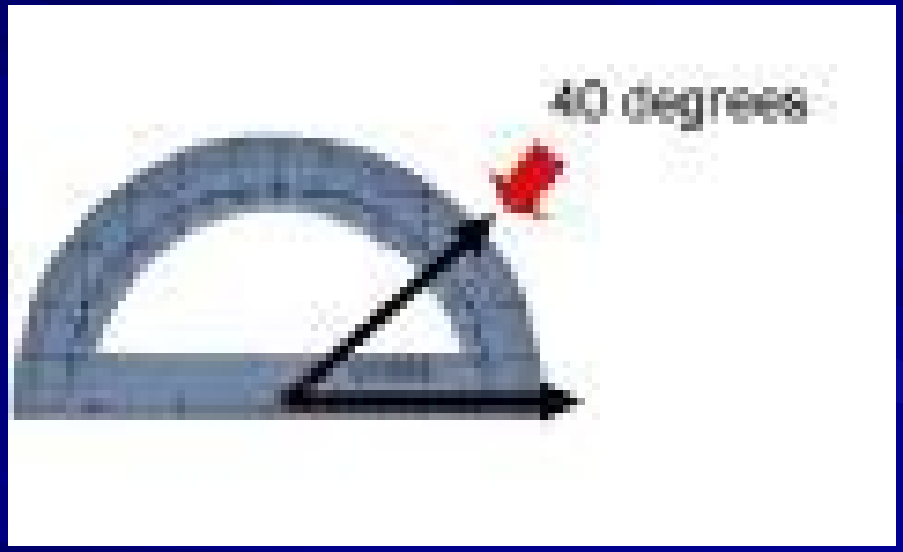
- We use a PROTRACTOR to measure vertex/angles in degrees





4 TYPES OF ANGLES

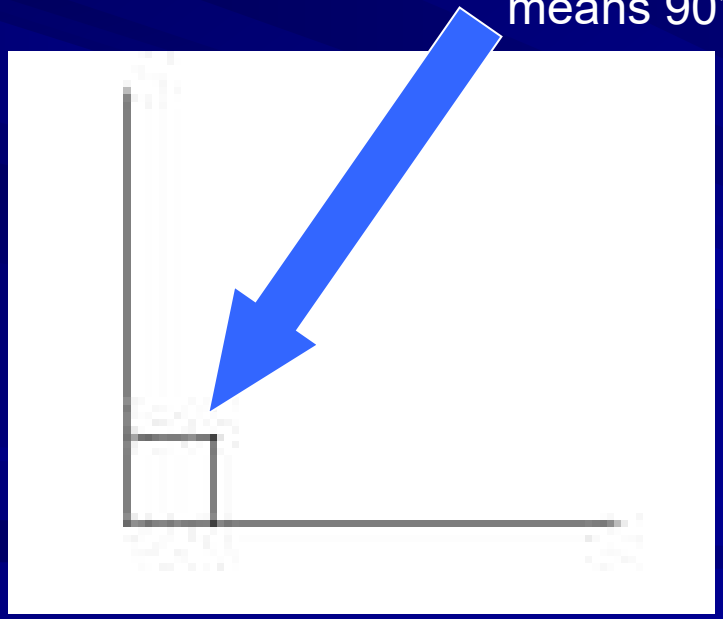
- ACUTE ANGLES are less than 90°

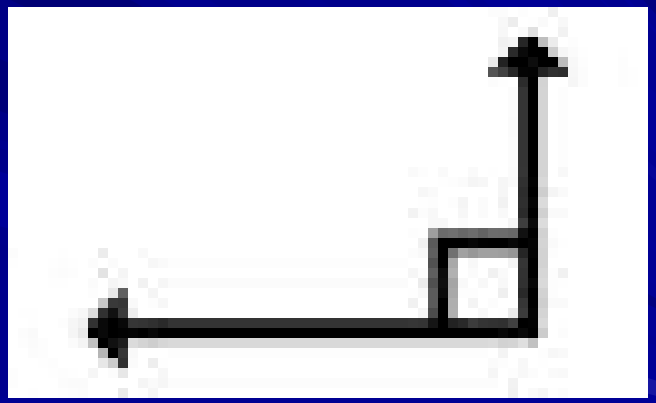


4 TYPES OF ANGLES

- RIGHT ANGLES measure exactly 90 °

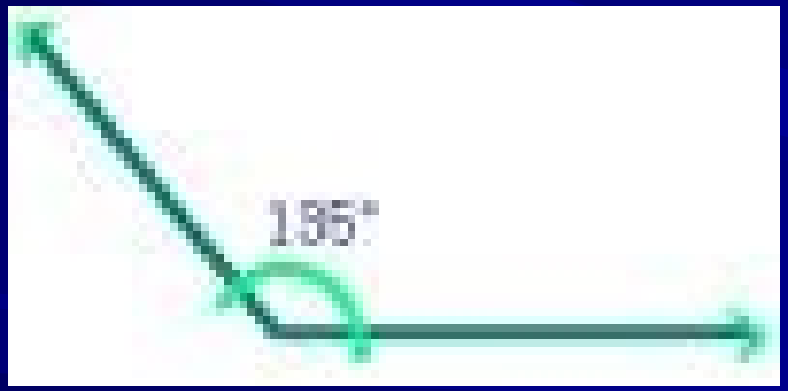
The "square" symbol means 90'

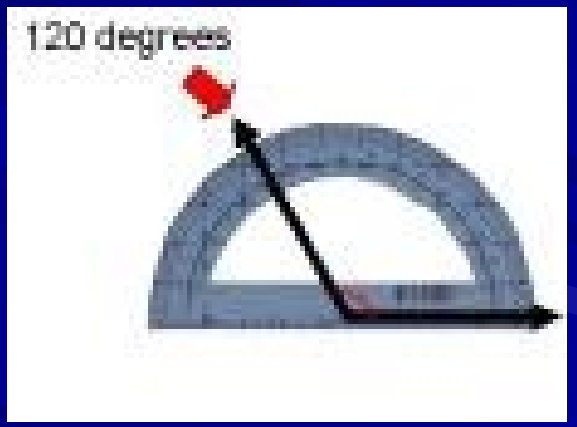




4 TYPES OF ANGLES

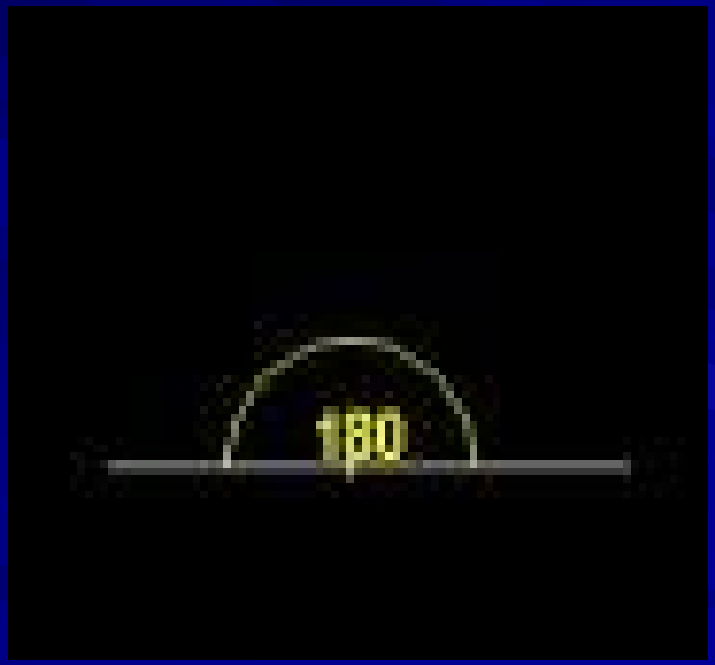
- OBTUES ANGLES are greater than 90 ° but less than 180 °





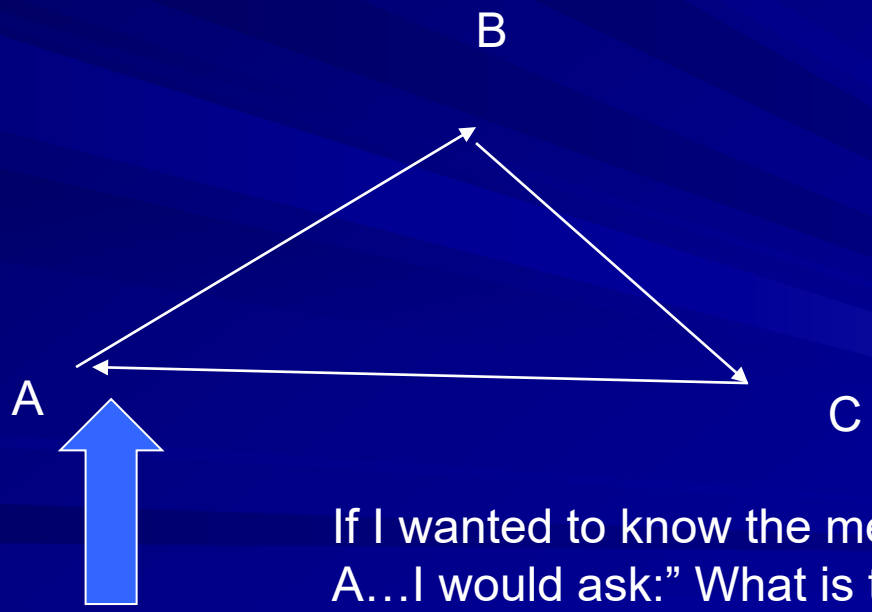
4 TYPES OF ANGLES

- STRAIGHT ANGLE is exactly 180 °



ANGLES

- When you “name” an angle. The vertex/angle “letter/number” goes in the center of the label



If I wanted to know the measurement of Angle A…I would ask:” What is the measurement for BAC?” (Notice A is in the center)

The End

- Once you study all the “fancy words”, Geometry is very easy to understand…so STUDY!