

The FRAME Routine

Key Topic

Proving Congruence

is about...

Using theorems to prove two triangles are congruent. The main four ways to prove this are...

Main idea

SSS

Main idea

SAS

Main idea

ASA

Main idea

AAS

Essential details

All 3 sides of each triangle

Essential details

Two cor. sides and one cor. angle

Essential details

Two cor. Angles and one cor. side

Essential details

Two cor. angles and one cor. side

Known, needed

Corresponding Sides equal

Two cor. Sides equal and the middle angle

Two cor. Angles and the middle side

Two cor. Angles and a side not between them being equal

When useful

When only sides are known

When only a corner is known

When know everything about one side

Rarely used, but if others fail, then this is great.

picture



So What? (What's important to understand about this?)

- Cor. Means corresponding which is very important in congruent figures.
- If I can find cor. Sides/angles in a triangle in one of the above theorems, then the two triangles are congruent.