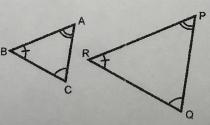
<u>Triangle Congruence Properties</u>		
Side-Angle Relationship	Picture	Guarantees Congruence?
SSS SIDE-SIDE-SIDE Three pairs of congruent sides	B C C	ABELIN S given  EXEMPL S given  ABC & ALMK bysss
SAS SIDE-ANGLE-SIDE Two pairs of congruent sides and one pair of congruent angles (and the angles are between the pairs of sides)	C B Z X	BC = YZ  AC = XZ  Sgiven  LC = LZ  ABC = DXYZ by SAS
ASA ANGLE-SIDE-ANGLE Two pairs of congruent angles and one pair of congruent sides (and the sides are between the pairs of angles)	c B X	4ABEXY Sqiven  ABEXY Sqiven  ACABE AZXY BY ASA
AAS (or SAA)  ANGLE- ANGLE-SIDE Two pairs of congruent angles and one pair of congruent sides (but the sides are NOT between the pairs of angles)	A C X	LA S LZ S given  AC S AY ZX WAAS
SSA (or ASS)	^ -	
wo pairs of congruent sides nd one pair of congruent ngles (but the angles are OT between the pairs of ides)	B 45° C D 45° F	More than one type of triangle is possible.
AA  nree pairs of congruent	A A A P	NO There is no guarantee the

angles



There is no guarantee the corresponding sides are congruent.