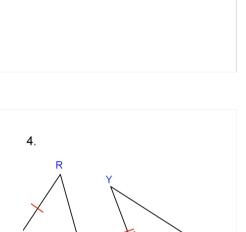
What is a postulate?

Postulate 4-2

Side-Angle-Side (SAS) Postulate

If two sides and the included angle of one triangle are congruent to two sides and the included angle of another triangle, then the two triangles are congruent.



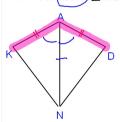


3. X is the midpoint of GN

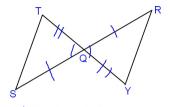
EX bisects ∠GEN

Can you use SAS to prove each pair of triangle congruent? If yes, write a congruence statement.

1. AN bisects ∠KAD



2 RS and TY bisect each other.



Star = SDAN LSOT=LRQY LQYR=LQTS

Each person take three straws and cut them to the following lengths.

11cm

14cm

9cm

Arrange these three straws on a piece of paper to form a triangle. Tape the straws in place.

How does your triangle compare with others?

They should be the same

How many different triangles can be made with these three straws?

ONE

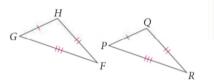
Postulate 4-1

Postulate 4-1

Side-Side-Side (SSS) Postulate

If the three sides of one triangle are congruent to the three sides of another triangle, then the two triangles are congruent.

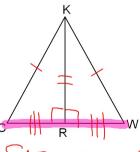
 $\triangle GHF \cong \triangle PQR$

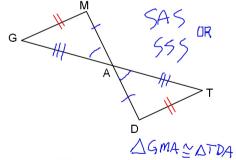


Is each pair of triangles congruent? If yes, give a reason and write a congruence statement.

1. KR is a \perp bisector of \overline{CW} .

2. MD and GT bisect each other





SAS or SSS DERCZDERY

Ways to prove triangles are congruent:

- 1. SAS
- **2. SSS**
- 3. AAS
- 4. ASA
- 5. HL