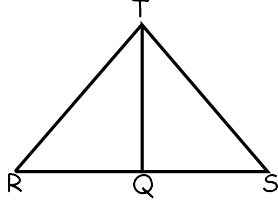
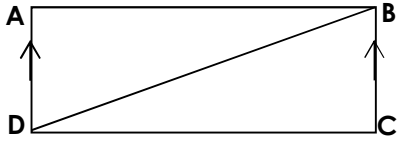
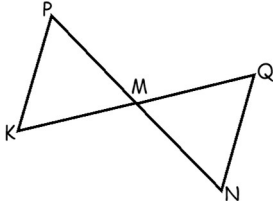
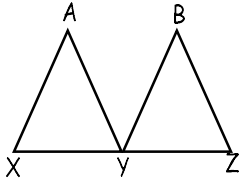
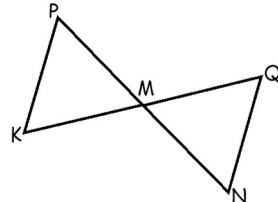
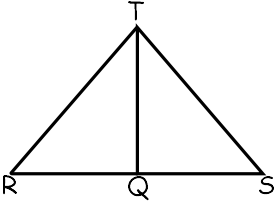


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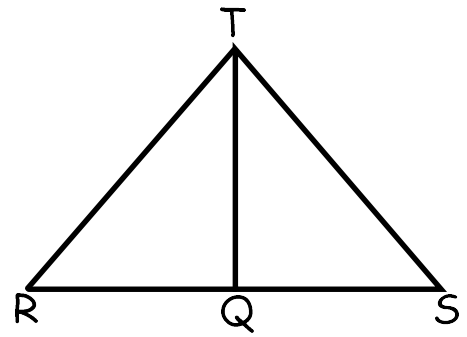
Triangle Proofs

IF...	THEN...
an angle or side is ALREADY marked on the picture, or if it is given in the directions	
the triangles share a side	
$\overline{AD} \parallel \overline{CB}$	
you see vertical angles	
Y is the midpoint of \overline{XZ}	
\overline{PN} and \overline{KQ} bisect each other	
\overline{QT} bisects $\angle RTS$	
$\triangle \underline{\hspace{2cm}} \cong \triangle \underline{\hspace{2cm}}$	
the triangles have already been proven to be congruent, and now we are trying to prove sides or angles are congruent	

1. **Given:** Q is the midpoint of \overline{RS} & $\triangle RTS$ is isosceles with legs \overline{RT} & \overline{TS} .

Prove: $\triangle RTQ \cong \triangle STQ$

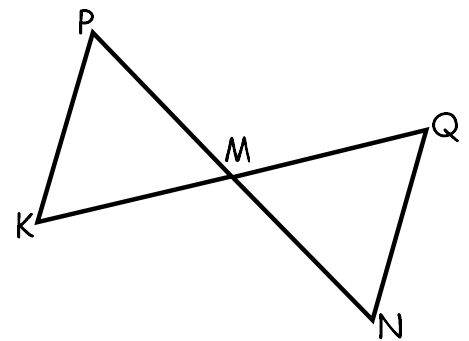
Statements	Reasons
1. Q is the midpoint of \overline{RS}	
2.	
3. $\triangle RTS$ is isosceles with legs \overline{RT} & \overline{TS}	
4.	
5.	
6. $\triangle RTQ \cong \triangle STQ$	



2. **Given:** $\angle P \cong \angle N, \overline{PM} \cong \overline{NM}$

Prove: $\triangle PMK \cong \triangle NMQ$

Statements	Reasons
1.	
2.	
3.	
4.	



3. **Given:** $\angle L \cong \angle J, \overline{LM} \parallel \overline{KJ}$

Prove: $\triangle LKM \cong \triangle JMK$

Statements	Reasons
1.	
2.	
3.	
4.	
5.	

