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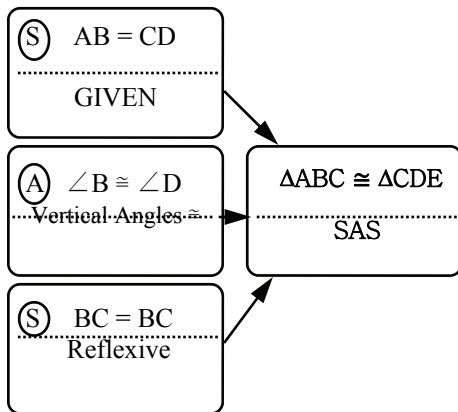
NUMB3RS ACTIVITY: What does it take to convict someone?

FBI Agent Don Eppes is working to solve a case regarding the bizarre deaths of players in an online game called "Primacy." His team is considering all the help in the case they can get including math professors Charlie and Amita. The FBI has considered potential suspects in this case for varying reasons, but no arrest can be made until they have enough information related to motive, opportunity, and physical evidence for each suspect.

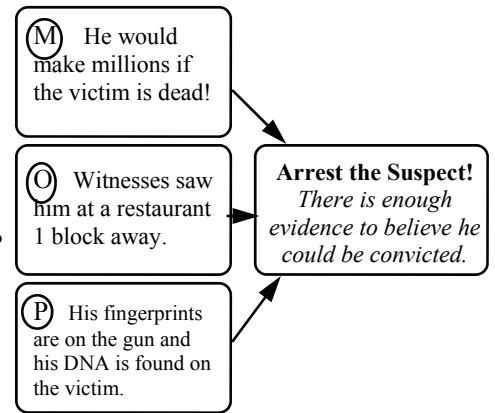


Flowcharts: Proving triangles congruent or proving a suspect murdered the victims can be done using flowcharts.

What might the proof look like when showing triangles are congruent?



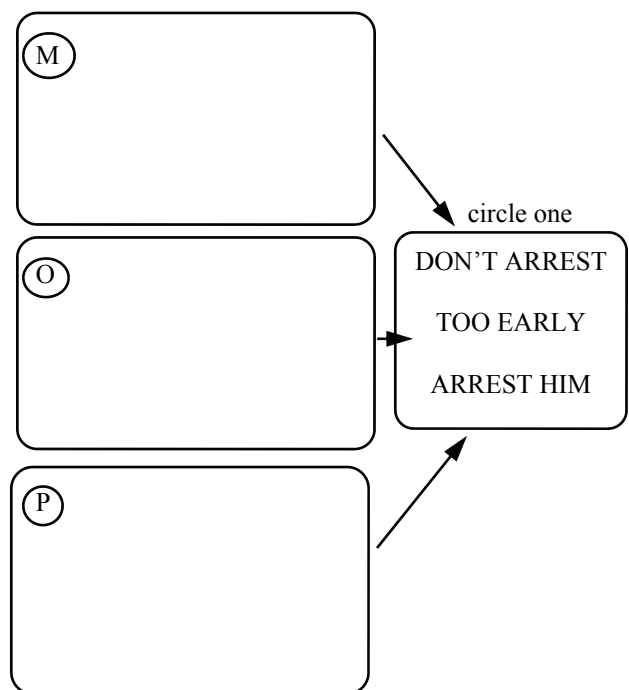
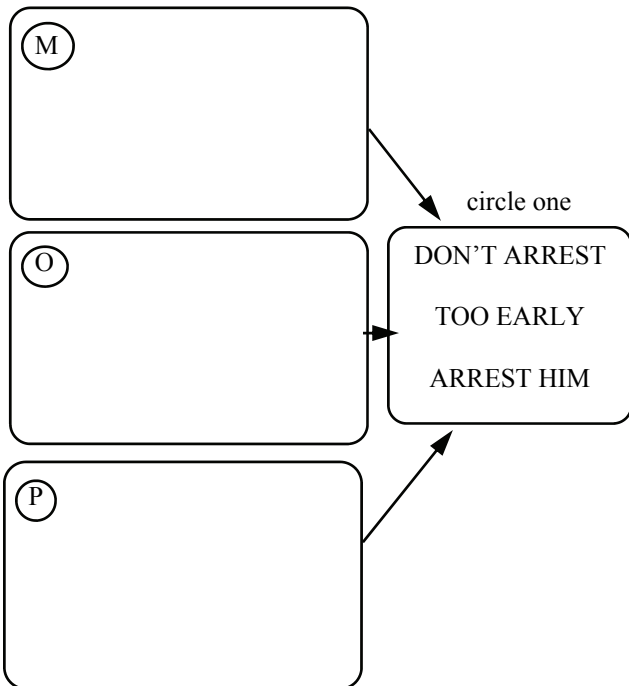
What might the proof look like when showing a suspect is guilty?



Don's FBI team is considering suspects in this murder case. Look at the **M**otive, **O**pportunity, and **P**hysical evidence for each to determine if they should make an arrest.

Anthony (Part of the Midwestern Axbutchers)

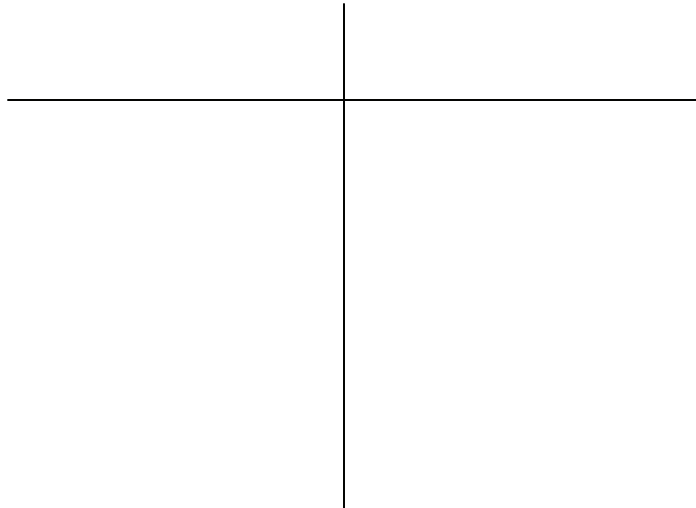
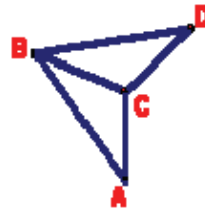
Binky Moore (Owner of Primacy)



Practice Using Triangle Congruence Proof

1. Given: $\overline{BD} \cong \overline{BA}$
 $\overline{AC} \cong \overline{DC}$

Prove: $\triangle ABC \cong \triangle DBC$



2. Given: $\overline{HJ} \cong \overline{KJ}$
 $\angle H \cong \angle K$

Prove: $\triangle HIJ \cong \triangle KLJ$

