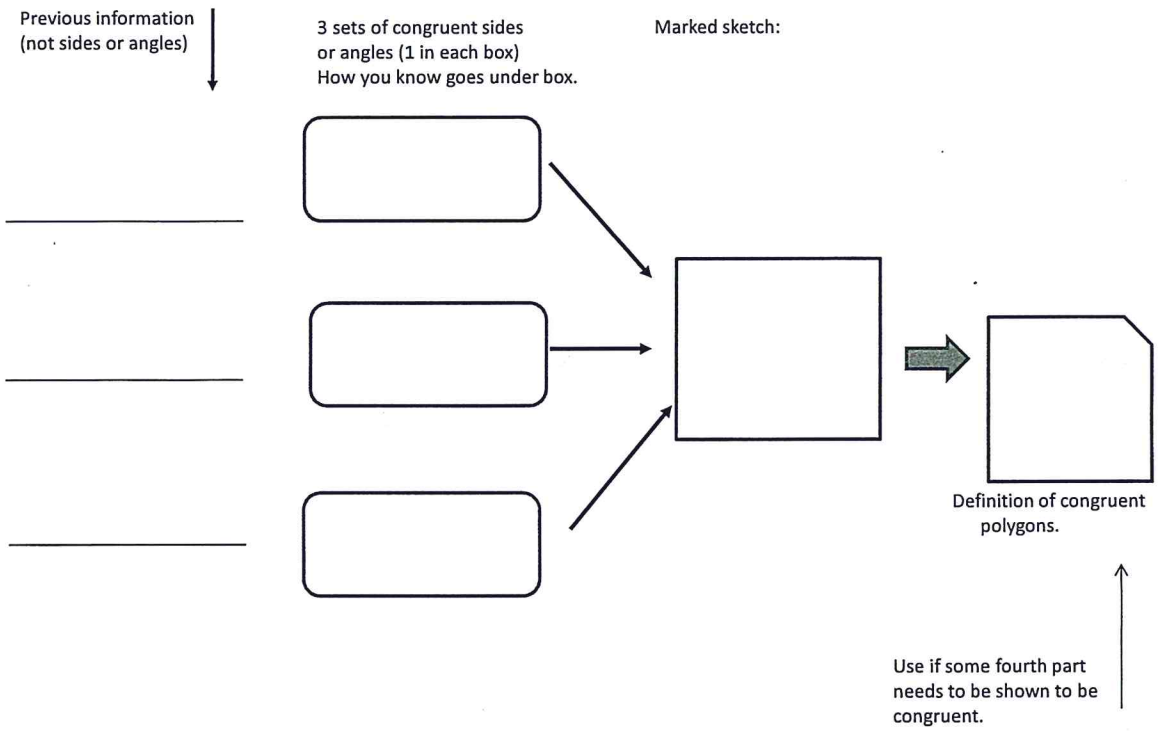
Flowchart Proof Template – Documentation of what your brain sees when it interprets a sketch/info



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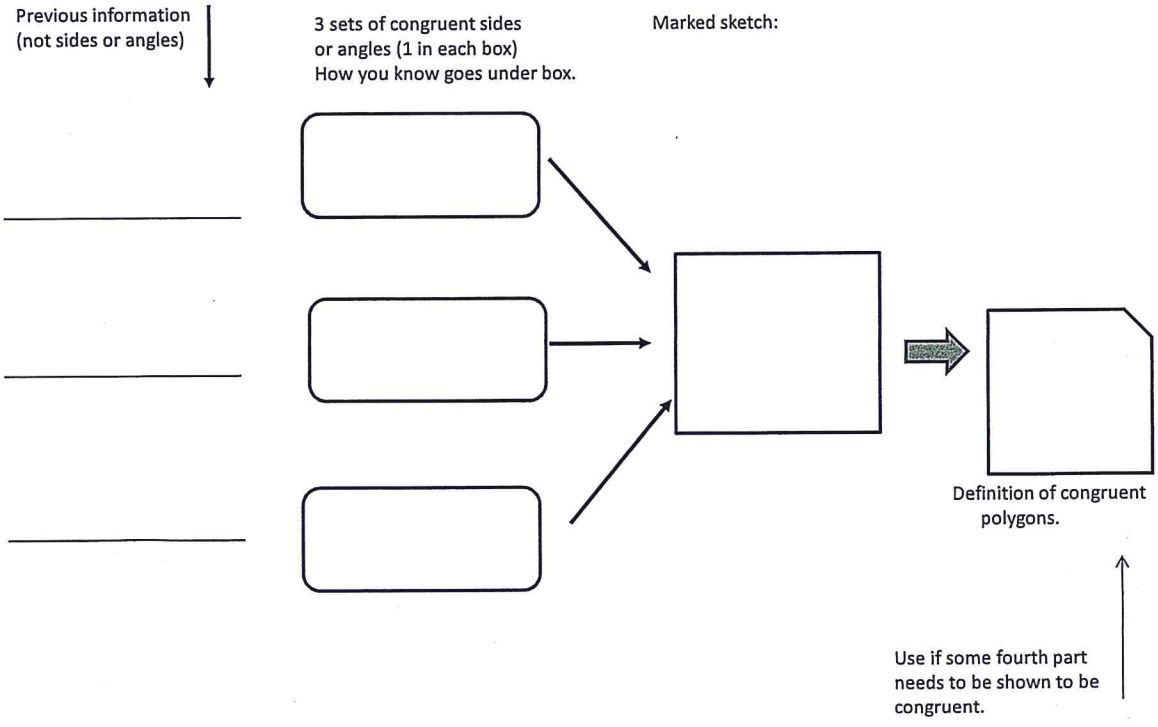

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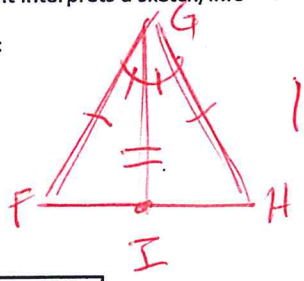
Previous information (not sides or angles)

3 sets of congruent sides or angles (1 in each box) How you know goes under box.

Marked sketch:



Is $\overline{FI} \cong \overline{HI}$?

$\overline{FG} \cong \overline{GH}$

Given

$\overline{GI} \cong \overline{GI}$

Shared side

$\angle FGI \cong \angle HGI$

Given

$\triangle FIG \cong \triangle HIG$

SAS

$\overline{FI} \cong \overline{HI}$

Definition of congruent polygons.

Use if some fourth part needs to be shown to be congruent.

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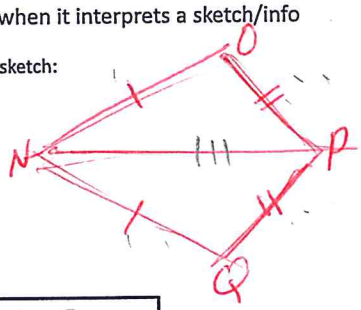

Is $\angle O \cong \angle Q$?

$\overline{NO} \cong \overline{NQ}$

given

$\overline{NP} \cong \overline{NP}$

Shared

$\overline{OP} \cong \overline{QP}$

given

$\triangle NOP \cong \triangle NQP$

SSS

$\angle Q \cong \angle O$

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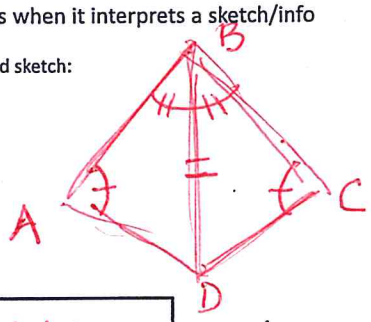

Show: $\overline{AB} \cong \overline{CB}$

$\angle A \cong \angle C$

Given

$\angle ABD \cong \angle CBD$

Given

$\overline{BD} \cong \overline{BD}$

Shared side

$\triangle ABD \cong \triangle CBD$

SAA

$\overline{AB} \cong \overline{CB}$

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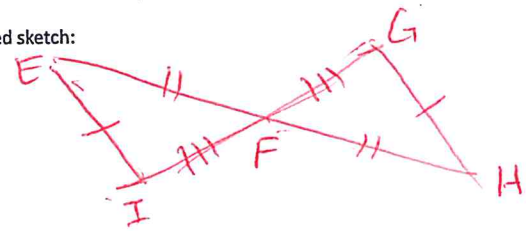

F is the midpt of $\overline{GI}$

Given

$\overline{IF} \cong \overline{GF}$

def of midpt

$\overline{EF} \cong \overline{HF}$

Given

$\overline{EI} \cong \overline{GH}$

Given

$\triangle FGH \cong \triangle FIE$

SSS

Definition of congruent polygons.

Use if some fourth part needs to be shown to be congruent.