

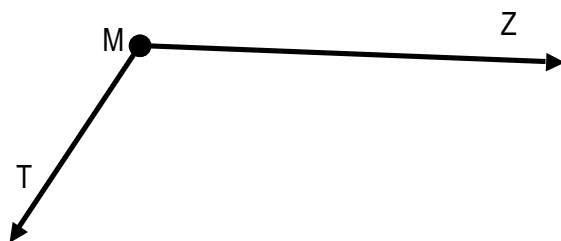
3.4

Name (print first and last) _____ Per _____ Date: 10/9 due 10/10

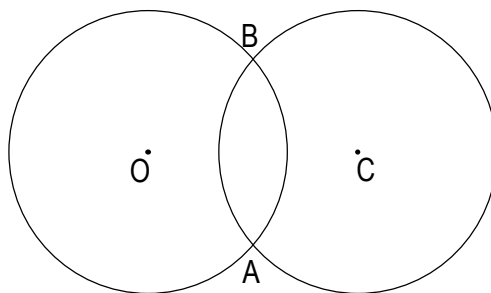
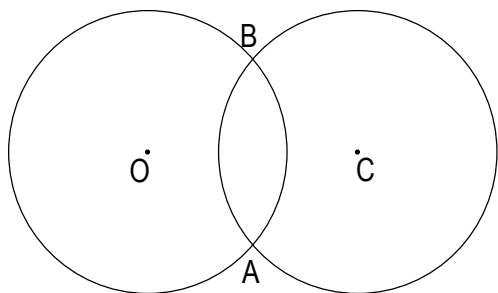
3.4 Rigid Transformations: Reflections, Perpendiculars, & Justification Geometry Regents 2013-2014 Ms. Lomac

SLO: I can reflect figures and critique the reflections of others.

- (1) ☐ Construct the angle bisector for $\angle TMZ$ and label it \overrightarrow{MY} .



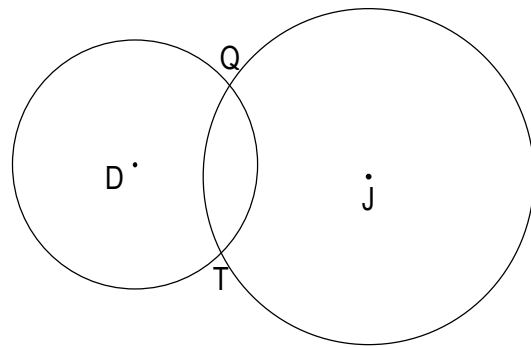
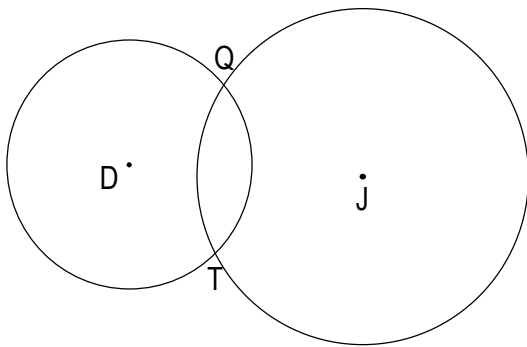
- (2) ☐ Below are 2 identical diagrams. Use one diagram for each justification. Circle O and Circle C have the same radius.



- ☐ \overline{OC} is the perpendicular bisector of \overline{AB} because. . .

- ☐ \overline{AB} is the perpendicular bisector of \overline{OC} because. . .

(3) ☐ This diagram is a bit different. Circle D and circle J are constructed with different radius measures.



☐ _____ is the perpendicular bisector of _____ because

☐ _____ is NOT the perpendicular bisector of _____ because _____

(4) ☐ Based on your work in problem number 3, complete each statement below:

☐ Point D is/is not (circle one) a reflection of point J across line QT because _____

☐ Point Q is/is not (circle one) a reflection of point T across Line DJ because _____

(5) ☐ Circle 1 explanation you wrote for problem 2 or 3 and use the RAP to comment on 2 things you did well and 2 things you need to improve upon.

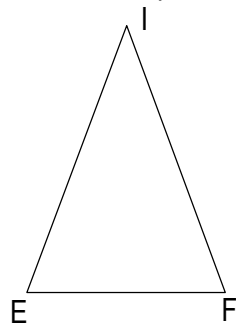
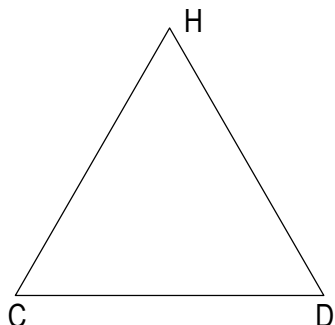
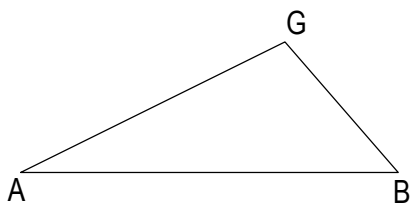
3.4HW

Name (print first and last) _____ Per _____ Date: 10/9 due 10/10

3.4 Rigid Transformations: Reflections, Perpendiculars, & Justification Geometry Regents 2013-2014 Ms. Lomac

(1) ☐ For each triangle below, construct the reflection of the triangle across the indicated line segment. Label image points.

(a) across \overline{AB} , label the new point G' (b) across \overline{CD} , label the new point H' (c) across \overline{EF} , label the new point I'



(2) ☐ Complete each statement based on your reflections in question 1. If a segment is not already drawn, draw it.

☐ (a) \overline{AB} is/is not perpendicular to $\overline{GG'}$ and does/does not bisect $\overline{GG'}$ because _____

☐ (b) $\overline{GG'}$ is/is not perpendicular to \overline{AB} and does/does not bisect \overline{AB} because _____

☐ (c) \overline{CD} is/is not perpendicular to $\overline{HH'}$ and does/does not bisect $\overline{HH'}$ because _____

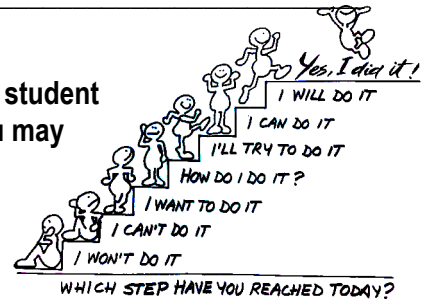
☐ (d) $\overline{HH'}$ is/is not perpendicular to \overline{CD} and does/does not bisect because _____

☐ (e) \overline{EF} is/is not perpendicular to $\overline{II'}$ and does/does not bisect $\overline{II'}$ because _____

☐ (f) $\overline{II'}$ is/is not perpendicular to \overline{EF} and does/does not bisect \overline{EF} because _____

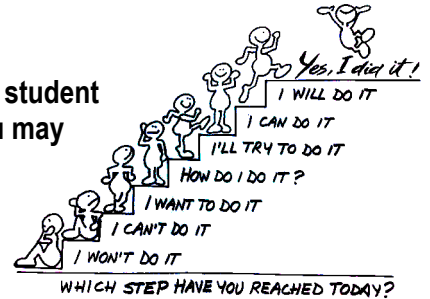
3.4 Exit Ticket Name _____ Per _____

Describe how to use a compass and straightedge to reflect a point across a line to a student who is just joining our class today. You probably want to include a diagram and you may want to number steps in your directions and diagram..



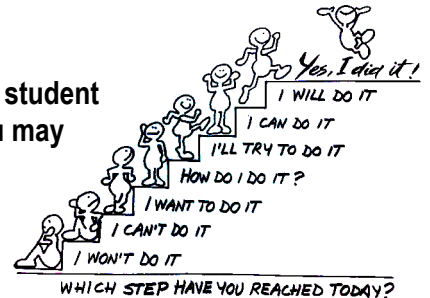
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HOW AM I DOING?

(RAP) Rubric for Assessing Proof

	Advanced (4)	Proficient (3)	Developing (2)	Emerging (1)
Knowing the goal	The goal is clearly stated.	The goal is clearly implied.	The goal is loosely implied or slightly misinterpreted.	The goal is not stated or is misinterpreted.
Choosing the tools	All valid & relevant givens, assumptions & theorems are present. No distracting or irrelevant concepts are introduced. No concepts are incorrect.	All relevant givens, and most assumptions & theorems are present. Distracting, irrelevant, or concepts are minimal. No concepts are incorrect.	All relevant givens and at least 1 assumption or theorem is present.	Not all givens are present and/or completely irrelevant assumptions, theorems, or concepts are present.
Using the tools	The purpose and placement of every given, assumption, and theorem is clear and valid.	The purpose and placement of most givens, assumptions, and theorems are clear and valid with only minor mistakes that do not significantly effect the validity of the proof.	For the givens, assumptions, and theorems that are present, the purpose and placement of them is clear and valid.	For the givens, assumptions, and theorems that are present, the purpose and placement of them is clear and valid.
Communicating the argument	Diagrams are neatly marked and connected to the argument with proper notation and relationships. Reasoning is articulate and expressed in coherent sentences that are neatly printed.	Diagrams are legibly marked and connected to the argument with proper notation and relationships. Reasoning is expressed in complete sentences that are legibly printed.	Diagrams are partially marked and loosely connected to the argument. Notation is not always correct. Reasoning has small gaps and expressed in legibly printed sentences.	Diagrams are partially marked or not marked. Reasoning has major gaps and/or is difficult to read or understand due to poorly articulated ideas or the failure to write legibly.

(RAC) Rubric for Assessing Constructions

	Advanced (4)	Proficient (3)	Developing (2)	Emerging (1)
Arcs	All necessary arcs are present and precise. Any distances that must be measured and transferred are done so accurately.	All necessary arcs are present and fairly precise. Any distances that must be measured and transferred are done so with minor accuracy mistakes.	Arcs are present that show some understanding of their purpose in the construction. Some necessary distances are measured.	Arcs are not present or are not appropriate for the construction. Arcs are sketched.
Labels	All labels are present. Prime notation is used for any image unless otherwise specified.	Most labels are present. Prime notation is used for most image unless otherwise specified.	Most labels are present. Prime notation may be missing or intermittent.	Labels are incomplete or unclear
Lines & Segments	All necessary lines and segments are drawn with a straightedge and clearly and accurately connect 2 points.	All necessary lines and segments are drawn and they clearly and fairly accurately connect 2 points.	All necessary lines and segments are drawn clearly connect 2 points.	Some lines are appropriate. May contain confusing lines or segments that are unnecessary.
Distances	All necessary distances have been accurately measured/maintained.	All necessary distances have been accurately measured/maintained.	Some necessary distances have been accurately measured/maintained.	Distances have not been measured/maintained.