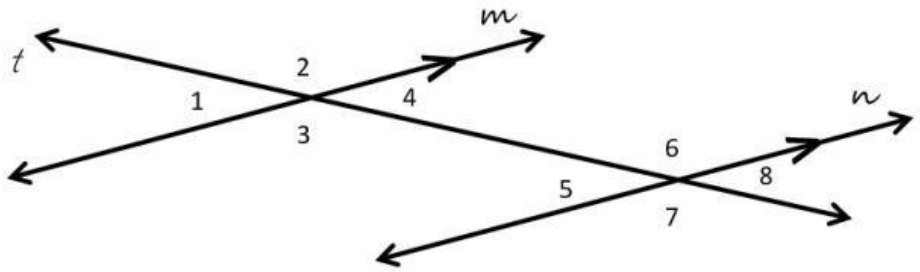
Transversals: Critical Thinking

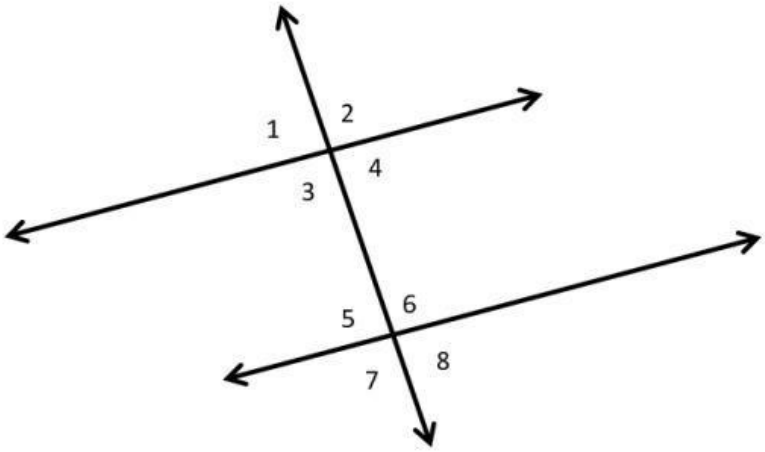
Name: _____

Date: _____ Class: _____



Using the diagram above, determine whether each statement is **true** or **false.** (Note that lines m and n are marked as parallel.)

1. If m∠1 = 90°, then m∠8 = 90°. _____
2. In m∠3 = 90°, then m∠8 = 90°. _____
3. If ∠1 is acute, then ∠6 is acute. _____
4. ∠3 and ∠8 are supplementary. _____
5. ∠2 ≅ ∠6. _____



Using the diagram above, determine whether each statement is **always**, **sometimes**, or **never** true. (Note that the lines are not marked as parallel.)

6. If m∠1 = 90°, then all of the marked angles are right angles. _____
7. ∠5 and ∠7 are supplementary. _____
8. ∠1 ≅ ∠5. _____
9. ∠6 and ∠7 are congruent. _____
10. ∠3 is the supplement of ∠5. _____

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