

Grade 8 - Week 4

Name:	Gr. & Sec.:

Name of Teacher: _____ Score: _____

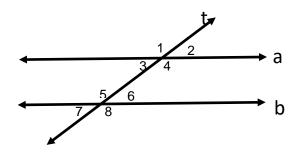
MASTER ME

Most Essential Learning Competency: Proves properties of parallel lines cut by a transversal.

At the end of this activity sheet, you are expected to:

- a. identify and Illustrate parallel lines and transversal lines; and
- b. proves properties of parallel lines cut by a transversal.

Transversal line – a line that intersects two coplanar lines at two distinct points



In the figure, line ${f t}$ is the transversal.

If two lines are cut by a transversal, then the following pairs of angles will be formed:

- **Corresponding angles** pair of angles which are in corresponding positions relative to the two lines and the transversal
- Alternate interior angles two nonadjacent interior angles that are on opposite sides of the transversal
- Alternate exterior angles two non adjacent exterior angles that are on opposite sides of the transversal
- Same-side interior angles two interior angles that are on the same side of the transversal
- Same-side exterior angles two exterior angles that are on the same side of the transversal

Two lines cut by a transversal line are parallel when the:

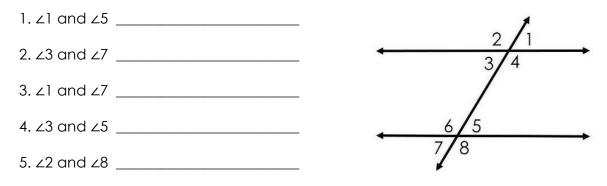
- corresponding angles are congruent.
- alternate interior angles are congruent.
- alternate exterior angles are congruent.
- same-side interior angles are supplementary.
- same-side exterior angles are supplementary.

Prepared by: Camille E. Cerbito/ Santiago National High School Edited & Reviewed by: Mercy I. Bisayas & Katherine D. Rezare / GFMNHS Main



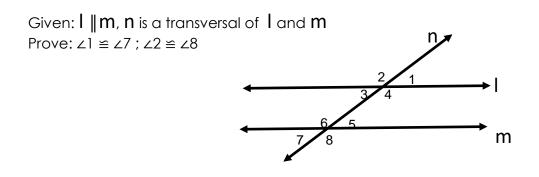
ACT ON

Direction: With the figure at the right, tell whether the given angle pairs formed are **corresponding angles**, **alternate interior angles** or **alternate exterior angles**. Write your answer on the space provided.



TRY MORE

Direction: Complete the following proof and state the theorem used based on the result.



Statements	Reason
1. I m	1. given
2. ∠1 and ∠5 ; ∠2 and ∠6 are pairs of corresponding angles	2.
3. ∠1 ≌ ∠5 ; ∠2 ≌ ∠6	3.
4.	4. definition of vertical angles
5. ∠5 ≌ ∠7 ; ∠6 ≌ ∠8	5.
6.	6.

Prepared by: Camille E. Cerbito/ Santiago National High School Edited & Reviewed by: Mercy I. Bisayas & Katherine D. Rezare / GFMNHS Main

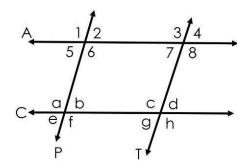


HARNESS SKILL

Direction: Prove the given statement below. Write your answer on the space provided

Given: A C; P T

Prove: ∠1 ≌ ∠h



Statements	Reason
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.
7.	7.