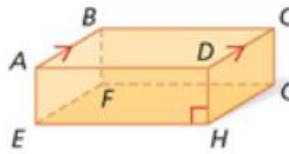


1. **Vocabulary** *alternate interior angles* ? are located on opposite sides of a transversal, between the two lines that intersect the transversal. (*corresponding angles, alternate interior angles, alternate exterior angles, or same-side interior angles*)

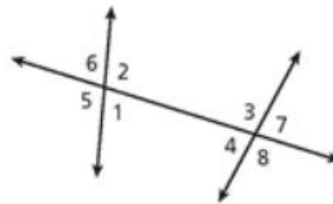
Identify each of the following.

2. one pair of perpendicular segments $\overline{DH} \perp \overline{EH}$
 3. one pair of skew segments $\overline{AD}, \overline{HG}$
 4. one pair of parallel segments $\overline{AB} \parallel \overline{CD}$
 5. one pair of parallel planes *Plane ABC & Plane EFG*



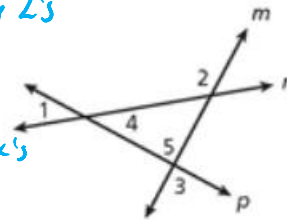
Give an example of each angle pair.

6. alternate interior angles $\angle 2, \angle 4$
 7. alternate exterior angles $\angle 6, \angle 8$
 8. corresponding angles $\angle 6, \angle 3$
 9. same-side interior angles $\angle 1, \angle 4$



Identify the transversal and classify each angle pair.

10. $\angle 1$ and $\angle 2$ *transversal n, corresponding \angle 's*
 11. $\angle 2$ and $\angle 3$ *transversal m, alt. ext. \angle 's*
 12. $\angle 2$ and $\angle 4$ *transversal n, alt int \angle 's*
 13. $\angle 4$ and $\angle 5$ *transversal p, same side int \angle 's*



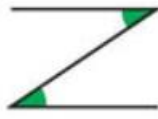
Name the type of angle pair shown in each letter.

27. F



Corresponding \angle 's

28. Z



alternate interior angles

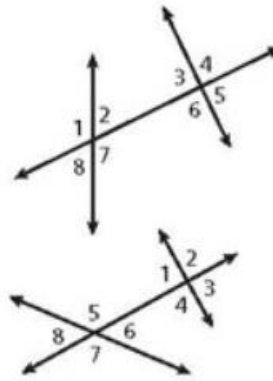
29. C



Same side interior angles

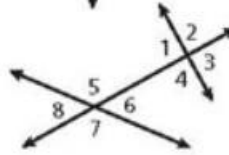
44. Which pair of angles in the diagram are alternate interior angles?

- A $\angle 1$ and $\angle 5$
- B $\angle 2$ and $\angle 6$
- C $\angle 7$ and $\angle 5$
- D $\angle 2$ and $\angle 3$



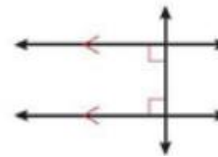
45. How many pairs of corresponding angles are in the diagram?

- F 2
- G 4
- H 8
- J 16



46. Which type of lines are NOT represented in the diagram?

- A Parallel lines
- C Skew lines
- B Intersecting lines
- D Perpendicular lines



48. Which angles in the diagram are NOT corresponding angles?

- A $\angle 1$ and $\angle 5$
- B $\angle 2$ and $\angle 6$
- C $\angle 4$ and $\angle 8$
- D $\angle 2$ and $\angle 7$

