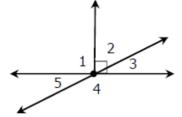
Do Now



Using the diagram, classify each angle pair using ALL names that apply.

- 1. $\angle 2 \& \angle 3$ Adjacent Complementary

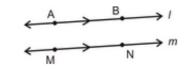
 2. \(\alpha\) \(\alpha\)
 - **4**. $\angle 3 \& \angle 4$ Supplementary Adjacent of 5. 23&25 Vertical

6. 24&25 Supplement Adjacent

Jan 12-10:52 AM

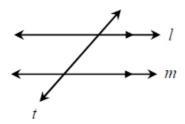
Parallel Lines

- Two lines that never intersect
- Arrows on lines indicate that they are parallel



Transversal

• a line that intersects two or more lines $l \mid m$ and the transversal is \overline{t}



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Corresponding Angles

- are in the same position on the parallel lines in relation to the transversal
- These angles are always congruent

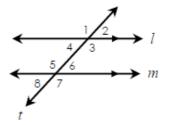
$$\angle 1 \cong \angle 5$$
 $\angle 4 \cong \angle 8$
 $\angle 2 \cong \angle 6$
 $\angle 3 \cong \angle 7$
 $2 \cong \angle 6$
 $2 \cong \angle 6$
 $2 \cong \angle 6$
 $2 \cong \angle 6$
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Alternate Interior Angles

- are inside the parallel lines and on opposite sides of the transversal
- These angles are always congruent

$$\angle 4 \cong \angle 6$$

$$\angle 3 \cong \angle 5$$



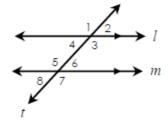
Jan 12-1:45 PM

Alternate Exterior Angles

- are outside the parallel lines and on opposite sides of the transversal
- These angles are always congruent

$$\angle 1 \cong \angle 7$$

$$\angle 2 \cong \angle 8$$

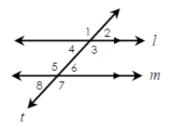


Consecutive Interior Angles

- are inside the parallel lines and on the same side of the transversal
- These angles are supplementary

$$\angle 4 + \angle 5 = 180^{\circ}$$

$$\angle 3 + \angle 6 = 180^{\circ}$$



Jan 12-1:45 PM

