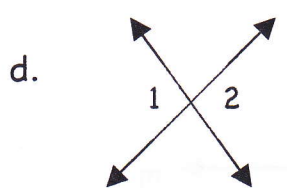
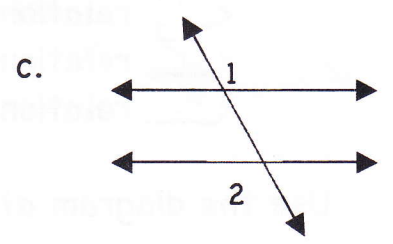
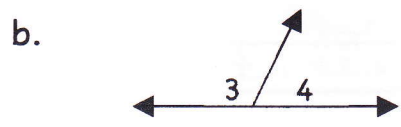
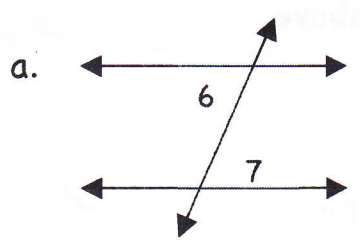


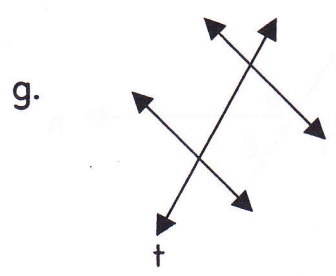
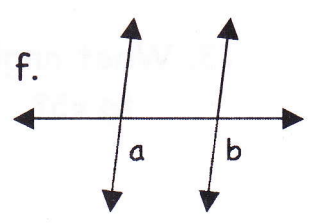
Relationships of Angles Made From Parallel Lines

Match the pictures below with these words, then define each word.

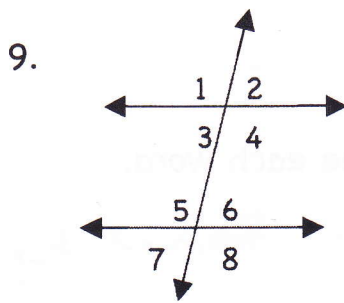
- d 1. Vertical Angles - a pair of opp. \cong \angle s formed by intersecting lines
- b 2. Supplementary Angles - 2 \angle s whose measures have a sum of 180°
- f 3. Corresponding Angles - \angle formed by a transversal cutting 2 or more lines that are in the same relative position
- a 4. Alternate Interior Angles - a pair of \angle s on the inner sides of 2 lines cut by a transversal that are on opp. sides of the transversal
- c 5. Alternate Exterior Angles - a pair of \angle s on the outer sides of 2 lines cut by a transversal that are on opp. sides of the transversal
- h 6. Parallel Lines - lines in a plane that do not intersect
- g 7. Transversal Line - a line that intersects 2 or more lines
- e 8. Congruent - having the same size & shape



e. $\angle 1 \cong \angle 2$

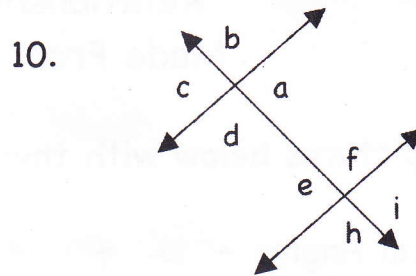


In each diagram below, parallel lines are cut by a transversal.



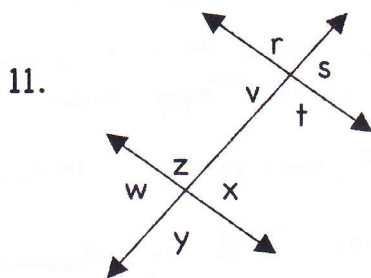
The angles congruent to $\angle 1$ are:

- $\angle 4$ relationship Vertical
- $\angle 5$ relationship Corresponding
- $\angle 8$ relationship alt ext



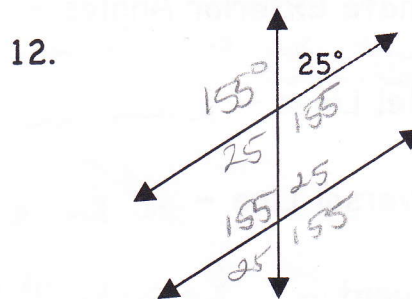
The angles congruent to $\angle a$ are:

- $\angle c$ relationship Vertical
- $\angle e$ relationship alt int
- $\angle i$ relationship Corresp.



The angles congruent to $\angle z$ are:

- $\angle y$ relationship Vert
- $\angle v$ relationship Corr.
- $\angle t$ relationship alt int



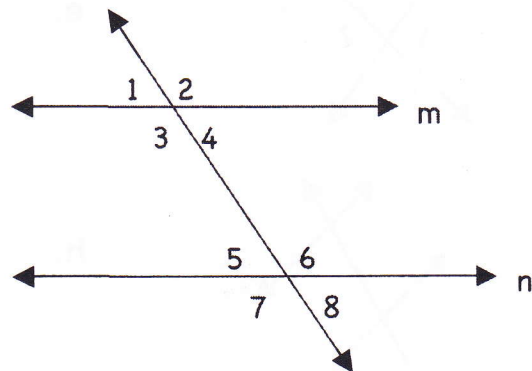
Write the measures of the remaining angles in the diagram above.

Use the diagram at the right for #13 and 14. Note: $m \parallel n$

13. What angles are supplementary to $\angle 5$? $\angle 6, \angle 7$

14. What angles are congruent to $\angle 4$? $\angle 1, \angle 8$

- $\angle 1$ Vertical
- $\angle 4 \cong \angle 8$ Corresponding
- $\angle 5$ Alt int



Use the diagram at the right to solve # 15 to 18. Note: $l \parallel m$

15. What is $m \angle 3$ if $m \angle 5$ is 105° ?

105°

16. What is $m \angle 6$ if $m \angle 7$ is 80° ?

100°

17. What is $m \angle 5$ if $m \angle 7$ is 65° ?

65°

18. What is $m \angle 8$ if $m \angle 2$ is 100° ?

100°

