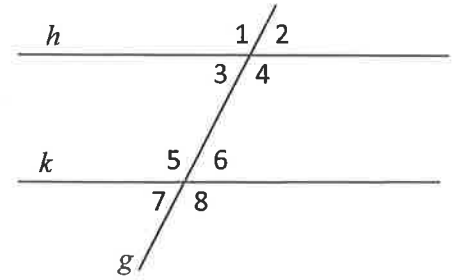


Quiz Version Practice

For #1-8, answer with letters A-G

- 1) $\angle 2$ & $\angle 6$ are B
- 2) $\angle 3$ & $\angle 6$ are D
- 3) $\angle 7$ & $\angle 6$ are A
- 4) $\angle 1$ & $\angle 7$ are G
- 5) $\angle 1$ & $\angle 8$ are E
- 6) $\angle 5$ & $\angle 7$ are C
- 7) $\angle 5$ & $\angle 7$ are C
- 8) $\angle 4$ & $\angle 6$ are F



- A) Vertical Angles
- B) Corresponding Angles
- C) A Linear Pair
- D) Alternate Interior Angles
- E) Alternate External Angles
- F) Same Side Interior Angles
- G) Same Side Exterior Angles

For #9-15, answer with letters A-D

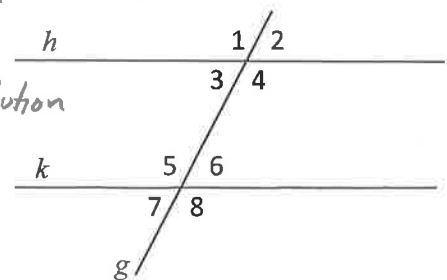
- A) Add to 180 degrees, but only when parallel lines are cut by a transversal.
- B) Always add to 180 degrees.
- C) Are congruent and thus equal in measure, but only when parallel lines are cut by a transversal.
- D) Are always congruent and thus equal in measure.

- 9) Vertical Angles D
- 10) Corresponding Angles C
- 11) A Linear Pair B
- 12) Alternate Interior Angles C
- 13) Alternate External Angles C
- 14) Same Side Interior Angles A
- 15) Same Side Exterior Angles A

16-18) Find value of x.

16) $\angle 2 = 2x + 30$ & $\angle 5 = 3x + 20$
 $2x + 30 + 3x + 20 = 180$
 $5x + 50 = 180$
 $5x = 130$
 $x = 26$

$\angle 5 = \angle 1$ Corr. Angles
 $\angle 1 + \angle 2 = 180$ L.P.P.
 $\therefore \angle 5 + \angle 2 = 180$ substitution



17) $\angle 2 = 2x + 30$ & $\angle 6 = 3x + 20$
 $2x + 30 = 3x + 20$
 $-2x - 20 \quad -2x - 20$

 $10 = x$

$\angle 2 = \angle 6$ Corr. \angle 's

18) $\angle 1 = x + 100$ & $\angle 8 = 3x + 20$
 $x + 100 = 3x + 20$
 $-x - 20 \quad -x - 20$

 $80 = 2x \rightarrow x = 40$

$\angle 1 = \angle 8$ alt. ext. \angle 's