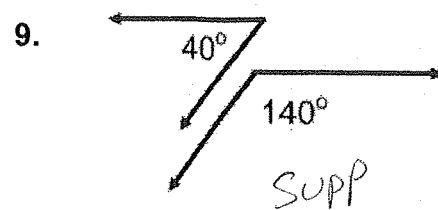
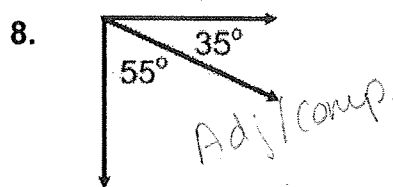
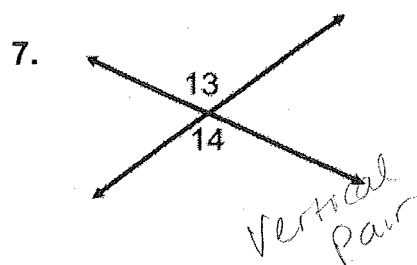
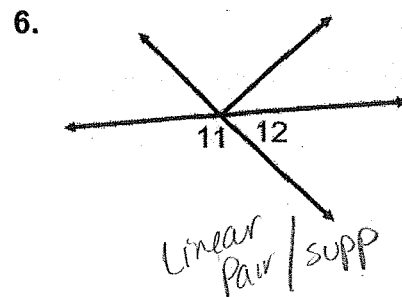
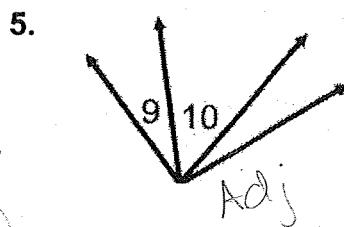
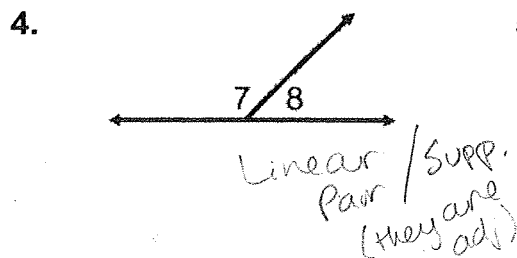
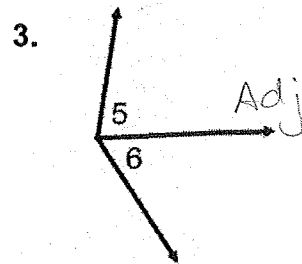
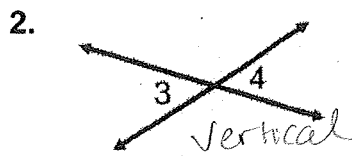
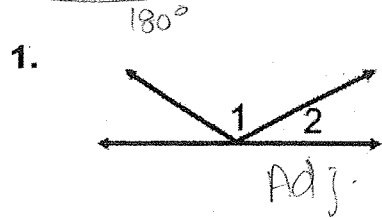


Identify each pair of angles as adjacent, vertical, complementary, supplementary, or a linear pair.



Use the figure at the right to answer each question.

10. Name two acute vertical angles. $\angle FGE$ & $\angle CGD$

11. Name two obtuse vertical angles. $\angle FGB$ & $\angle CGD$

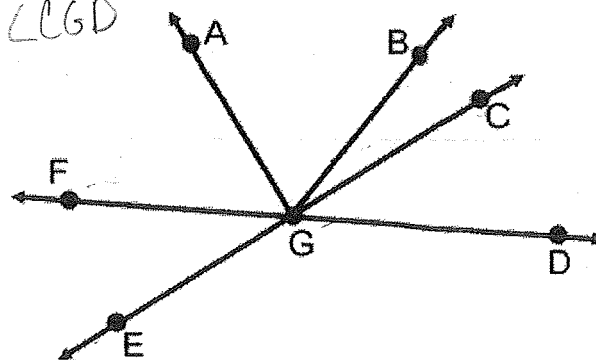
12. Name a pair of adjacent angles $\angle ABB$ & $\angle BGC$

13. Name a linear pair. $\angle FGC$ & $\angle CGD$

14. Name a pair of complementary angles. $\angle AGB$ & $\angle BGC$

15. Name an angle supplementary to $\angle FGE$

$\angle CGD$
 or
 $\angle FGC$



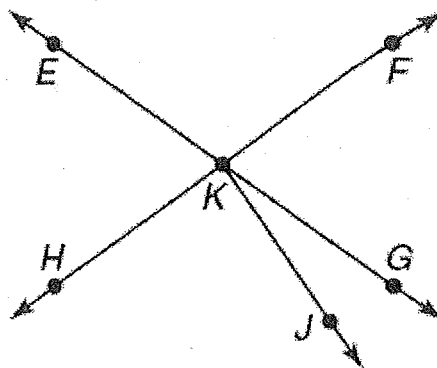
Multiple Answer possibilities -
 SWAP with Partner & check answers -

Geometry Worksheet

For #1-6, use the figure at the right.

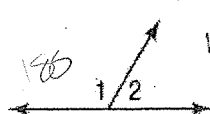
1. Name two acute vertical angles.
2. Name two obtuse vertical angles.
3. Name a linear pair.
4. Name two acute adjacent angles.
5. Name an angle complementary to $\angle FKG$.
6. Name an angle supplementary to $\angle FKG$.

SKIP



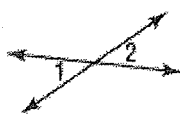
Find the measure of each numbered angle.

7. $m\angle 2 = 57$



$m\angle 1 = 123$

8. $m\angle 1 = 38$



congruent

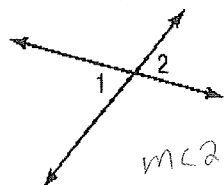
$m\angle 2 = 38$

9. $m\angle 5 = 22$



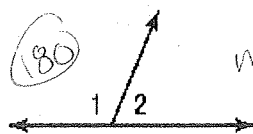
$m\angle 6 = 68$

10. $m\angle 1 = 65$



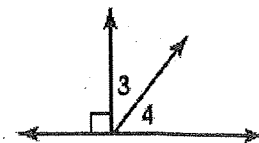
$m\angle 2 = 65$

11. $m\angle 2 = 67$



$m\angle 1 = 113$

12. $m\angle 3 = 38$



$m\angle 4 = 52$

13. $m\angle 13 = 4x + 11$, $4(24) + 11$
 $m\angle 14 = 3x + 1$, $3(24) + 1$

$m\angle 13 = 107$
 $m\angle 14 = 73$



$4x + 11 + 3x + 1 = 180$
 $7x + 12 = 180$
 $7x = 168$
 $x = 24$

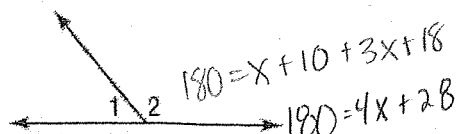
14. $m\angle 2 = 4x - 26$, $4(30) - 26$
 $m\angle 3 = 3x + 4$, $3(30) + 4$



$4x - 26 = 3x + 4$
 $x = 30$

$m\angle 2 = 94$
 $m\angle 3 = 94$

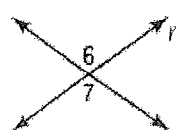
15. $m\angle 1 = x + 10$, $38 + 10$
 $m\angle 2 = 3x + 18$, $3(36) + 18$



$m\angle 1 = 48$
 $m\angle 2 = 132$

$180 = x + 10 + 3x + 18$
 $180 = 4x + 28$
 $152 = 4x$
 $38 = x$

16. $m\angle 6 = 7x - 24$
 $m\angle 7 = 5x + 14$

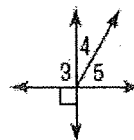


$m\angle 6 = 7(19) - 24$
 $m\angle 7 = 5(19) + 14$

$7x - 24 = 5x + 14$
 $2x = 38$
 $x = 19$

$m\angle 6 = 109$
 $m\angle 7 = 109$

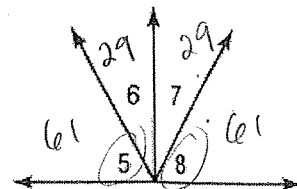
17. $m\angle 4 = 2x - 5$, $2(10) - 5$
 $m\angle 5 = 4x - 13$, $4(10) - 13$



$m\angle 4 = 90$
 $m\angle 5 = 31$
 $m\angle 5 = 59$

$2x - 5 + 4x - 13 = 90$
 $6x - 18 = 90$
 $6x = 108$
 $x = 18$

18. $\angle 7$ and $\angle 8$ are complementary. $\angle 5 \cong \angle 8$ and $m\angle 6 = 29$.



$90 - 29 = 61$