

Geometry 5.1b Day 1 Worksheet Answers

1.
 - a. Alternate Interior (picture may vary)
 - b. Alternate Exterior (picture may vary)
 - c. Corresponding angles (picture may vary)
2. $x = 56$
3. $m\angle 1 = m\angle 2 = 120^\circ$
4. $m\angle 1 = 100^\circ, m\angle 2 = 100^\circ$
5. Vertical angles are congruent
6. Alternate exterior angles are congruent
7. $m\angle 1 = 56^\circ$
8. Corresponding angles are congruent
9. $m\angle 2 = 56^\circ$
10. The sum has to equal 180° for consecutive interior angles if the lines are parallel
11. $\angle 4$ and $\angle 5$, $\angle 3$ and $\angle 6$
12. $\angle A \cong \angle C$ since vertical angles are congruent. Answer may vary
13. $d = 75^\circ$
14. $m\angle ABC = 145^\circ$
15. Yes, answers may vary
16. $\angle 5$ should equal 68° so corresponding angles are congruent.
17. $\angle 8 = 80^\circ$
18. $m\angle 5 = 155^\circ$
19. $\angle 2$ and $\angle 8, \angle 1$ and $\angle 7$
20. $\angle 1 \cong \angle 3 \cong \angle 6 \cong \angle 7$