

1. $m\angle 1 = 90, m\angle 2 = 40$
2. $m\angle 1 = 95, m\angle 2 = 60$
3. \overline{XY}, X, Y
4. \overline{BC} (or \overline{CB})
5. $\angle C$
6. $\angle X$ (or $\angle YXZ$ or $\angle ZXY$)
7. $\angle Y$
8. $\angle F \cong \angle M, \angle O \cong \angle A, \angle U \cong \angle N, \angle R \cong \angle Y$
9. $\overline{FO} \cong \overline{MA}, \overline{OU} \cong \overline{AN}, \overline{UR} \cong \overline{NY}, \overline{RF} \cong \overline{YM}$
10. 2) Definition of a bisector
 3) Vertical Angles Theorem
 4) Third Angles Theorem
 5) Definition of Congruent Triangles
11. C: $\angle B \cong \angle K$
12. No, the letters are out of order. Example: By the given order of the names \overline{CB} would have to be congruent to \overline{CD} which is not true.
13. $x = 3, y = 15$
14. $x = 15$
15. $x = 12$
16. $x = 4$