

10. False. Since  $\angle 1$  and  $\angle 2$  form a right angle they are COMPLEMENTARY, not supplementary.

14.  $\angle COD$  or  $\angle DOC$

18. No. Even with AC, it would be SSA which does not prove triangles congruent.

24.  $\angle LMP$  and  $\angle NMP$ , or  $\angle LMQ$  and  $\angle QMN$

$$\begin{array}{ll} 30. & 3x + 20 = 6x - 16 \qquad \text{Therefore, } \angle ABC = 3(12) + 20 + 6(12) - 16 \\ & 36 = 3x \qquad \qquad \qquad = 36 + 20 + 72 - 16 \\ & 12 = x \qquad \qquad \qquad = 112^\circ \end{array}$$

$$34. \quad m\angle BCD = 90 - 65 = 25^\circ$$

40. a.  $\angle CBD$  is the angle of reflection, and also measures  $41^\circ$

$$b. \quad m\angle ABD = m\angle ABC + m\angle CBD = 41 + 41 = 82^\circ$$

$$c. \quad m\angle ABE = m\angle DBF = 90 - 41 = 49^\circ$$

44. either  $\angle QMP$  or  $\angle LMN$