Name _____ Class _____ Date _____

Practice 1-7

Basic Constructions

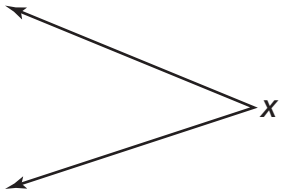
Construct each figure as directed.

1. Construct $\overline{AB}$ congruent to $\overline{XY}$. Check your work with a ruler.
2. Construct the perpendicular bisector of $\overline{XY}$.
3. Construct a triangle whose sides are all the same length as $\overline{XY}$.

Check your work with a protractor.

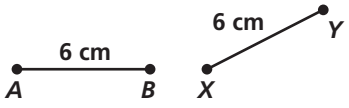
4. **a.** Construct a 90° angle.
   b. Construct a 45° angle.
5. Construct $\angle A$ so that $m\angle A = m\angle 1 + m\angle 2$.
6. Construct $\angle C$ so that $m\angle C = 2m\angle 2$.

7. Construct the angle bisector of $\angle X$.
8. Construct $\angle W$ so that $m\angle W = 2m\angle X$.

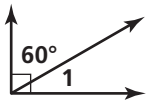


Write *true* or *false*.

9. $\overline{AB} \cong \overline{XY}$ _____



10. $m\angle 1 = 40$ _____



11. If $m\angle A = 80$, then $\angle A$ is obtuse. _____
12. The perpendicular bisector of a line segment creates four 90° angles. _____