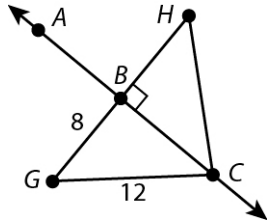
LESSON 4-4

Perpendicular Lines

Practice and Problem Solving: A/B

For Problems 1–4, determine the unknown values.

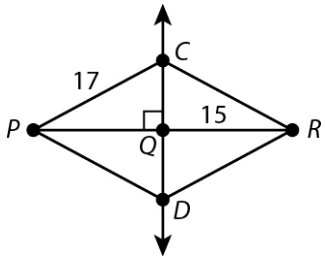
1. Given: $\overleftrightarrow{AC}$ is the perpendicular bisector of $\overline{GH}$.



$GH =$

$CH =$

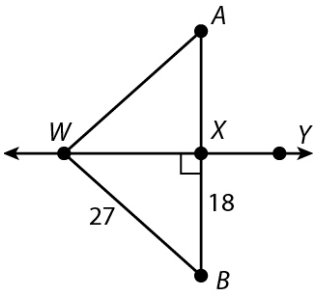
2. Given: $\overleftrightarrow{CD}$ is the perpendicular bisector of $\overline{PR}$.



$CR =$

$PQ =$

3. Given: $\overleftrightarrow{WY}$ is the perpendicular bisector of $\overline{AB}$.

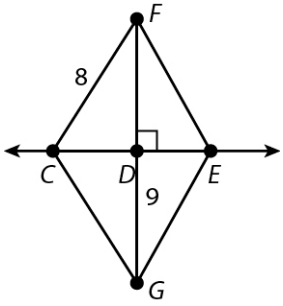


$WA =$

$AX =$

$AB =$

4. Given: $\overleftrightarrow{CE}$ is the perpendicular bisector of $\overline{FG}$.



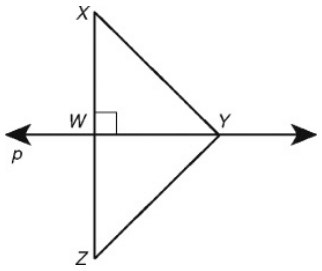
$FG =$

$FD =$

$CG =$

Use the figure for Problems 5 – 8.

5. Given that line *p* is the perpendicular bisector of $\overline{XZ}$ and $XY = 15.5$, find *ZY.*



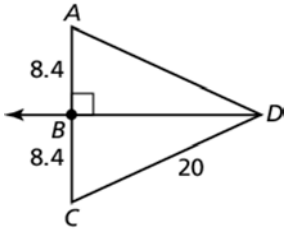
6. Given that $XZ = 38$, $YX = 27$, and $YZ = 27$, find *ZW.*

7. Given that line *p* is the perpendicular bisector of $\overline{XZ}$, $XY = 4n$, and $YZ = 14$, find *n.*

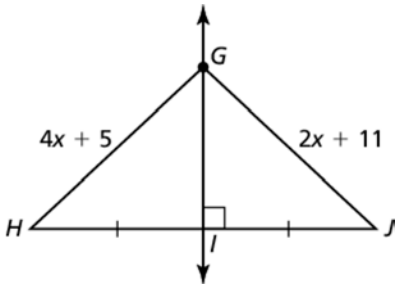
8. Given that $XY = ZY$, $WX = 6x - 1$, and $XZ = 10x + 16$, find *ZW*.

In Exercises 9 – 15, find the indicated measure. Explain your reasoning.

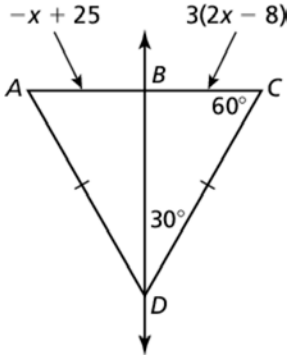
9. *AD*



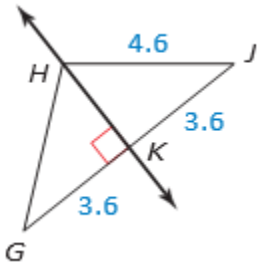
10. *GJ*



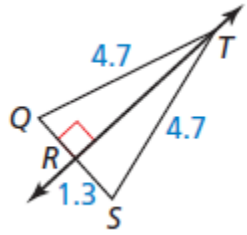
11. AC



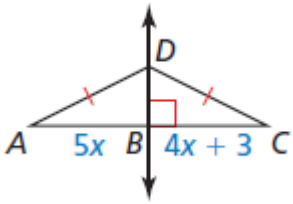
12. *GH*



13. *QR*



14. AB



15. UW