6.1 Perpendicular & Angle Bisectors CYU

☑ Use when you get it right all by yourself

 $oldsymbol{\mathcal{S}}$ Use when you did it all by yourself, but made a silly mistake

HUse when you could do it alone with a little help from teacher or peer

 ${\it G}$ Use when you completed the problem in a group

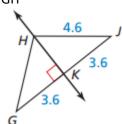
 $\emph{\textbf{X}}$ Use when a question was attempted but wrong (get help)

NUse when a question was not even attempted

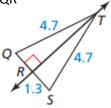
CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Properties of Perpendicular Bisectors	1 - 4	5 - 8	
Properties of Angle Bisectors	9 - 11		
Writing Equations of Perpendicular Bisectors			12 - 15

Find the indicated measure. Explain your reasoning.

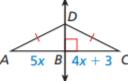
1. GH



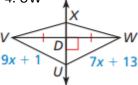
2. QR



3. AB

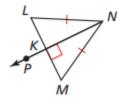


4. UW

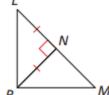


Tell whether the information in the diagram allows you to conclude that point P lies on the perpendicular bisector \overline{LM} . Explain your reasoning.

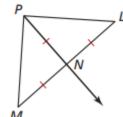
5.

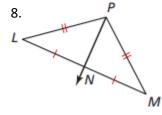


6



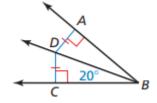
7.



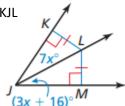


Find the indicated measure. Explain your reasoning.

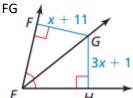
9. m∠ ABD



10. m∠KJL



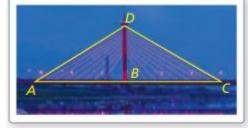
11. FG



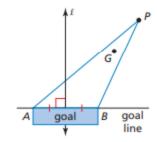
14. U(-3, 4) & V(9, 8)

15. Y(10, -7) & Z(-4, 1)

16. **MODELING MATHEMATICS**: In the photo, the road is perpendicular to the support beam and $\overline{AB} \cong \overline{CB}$. Which theorem allows you to conclude that $\overline{AD} \cong \overline{CD}$?



- 17. **MODELING WITH MATHEMATICS:** the diagram shows the position of the goalie and the puck during a hockey game. The goalie is at point G, and the puck is at point P.
 - a) What should be the relationship between \overrightarrow{PG} and $\angle APB$ to give the goalie equal distances to travel on each side of \overrightarrow{PG} ?



b) How does m∠APB change as the puck gets closer to the goal? Does this change make it easier or more difficult for the goalie to defend the goal? Explain your reasoning.

CYU Reflection: How far can you go: basic, intermediate, or advanced?

Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yours elf.

