Name	e Date Pd
	10.1 Tangents, Secants and Angle Measures CYU
6	Use when you get it right all by yourself
	${m {\it S}}$ Use when you did it all by yourself, but made a silly mistake
HU	se when you could do it alone with a little help from teacher or peer
	G Use when you completed the problem in a group
	$m{X}$ Use when a question was attempted but wrong (get help)
	NUse when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Tangent Line to a Circle Theorem		2, 5	4
External Tangent Congruence Theorem	1	3	4
Circle Vocabulary Terms	7 - 13		6
Real World Application			14, 15

For each OQ, find the value of x. Assume that segments that appear to be tangent are tangent.

4.











Name the following terms based on the provided diagram. Use proper notation. 7. circle

- 8. two radii
- 9. two chords
- 10. a diameter
- 11. secant
- 12. tangent
- 13. point of tangency



14. **MODELING WITH MATHEMATICS** A bicycle chain is pulled tightly so that \overline{MN} is a common tangent of the gears. Find the distance between the centers of the gears. 17.6 in N 4.3 in.



15. MATHEMATICAL CONNECTIONS Find the values of x and y. Justify your answer. 4y - 1



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

