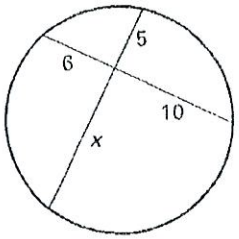
Name _____ Date _____

LESSON 6.6 **Practice** *continued*

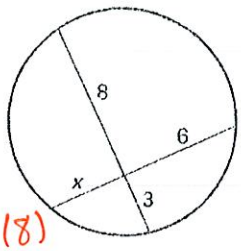
Find the value of *x*.

10.



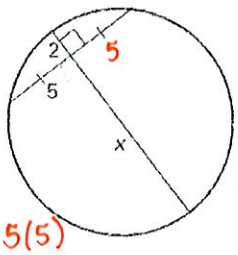
$5x = 6(10)$
$5x = 60$
$\boxed{x = 12}$

11.



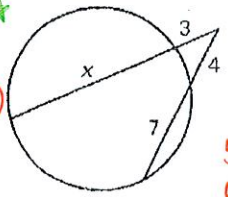
$6x = 3(8)$
$6x = 24$
$\boxed{x = 4}$

12.



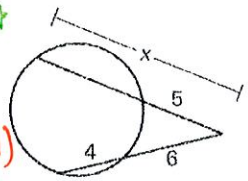
$2x = 5(5)$
$2x = 25$
$\boxed{x = 12.5}$

13. ☆



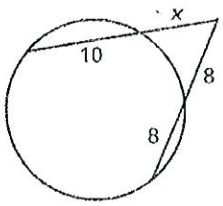
$3(3+x) = 4(4+7)$
$9 + 3x = 4(11)$
$9 + 3x = 44$
$3x = 35$
$\boxed{x = 11.67}$

14. ☆



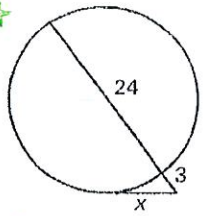
$5x = 6(6+4)$
$5x = 6(10)$
$5x = 60$
$\boxed{x = 12}$

15.



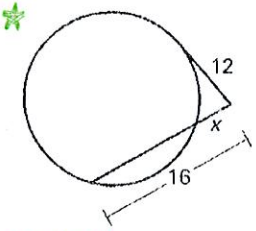
$x(x+10) = 8(8+8)$
$x^2 + 10x = 8(16)$
$x^2 + 10x = 128$
$x^2 + 10x - 128 = 0$
$x = 7.39$ and $x = -17.37$
$\boxed{x = 7.39}$

16. ☆



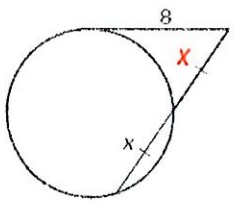
$x^2 = 3(3+24)$
$x^2 = 3(27)$
$x^2 = 81$
$x = \pm 9$
$\boxed{x = 9}$

17. ☆



$12^2 = x(16)$
$144 = 16x$
$9 = x$
$\boxed{x = 9}$

18.



$8^2 = x(x+x)$
$64 = x(2x)$
$64 = 2x^2$
$32 = x^2$
$\boxed{x = 4\sqrt{2} \text{ or } 5.66}$ and $x = -4\sqrt{2}$