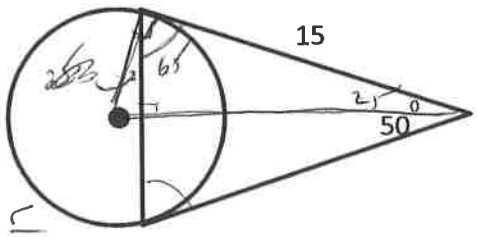
Name _____ Date _____

The radius, diameter, or circumference is given. Find the other measures. Round to the nearest tenth if needed.

1. r = 5, d = 10, Circ = 31.4
2. r = 13.4, d = 26.8, Circ = 84.2
3. r = 21.8, d = 43.6, Circ = 136.9
4. r = 377.1, d = 754.1, Circ = 2368
5. r = x, d = 2x, Circ = 6.28x
6. r = $\frac{x}{6}$, d = $\frac{x}{3}$, Circ = x

Find the Circumference. Round to the nearest tenth as needed.

7.



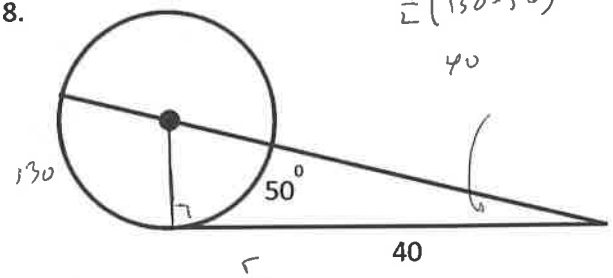
TAN 25 = $\frac{r}{15}$

r = 7

Circ = 43.96

44

8.



$\frac{1}{2}(130-50)$

40

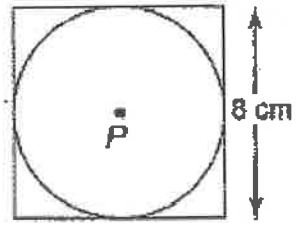
TAN 40 = $\frac{r}{40}$

r = 33.6

Circ = 211

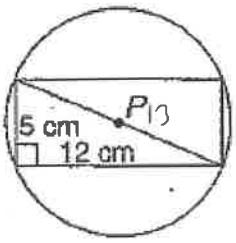
Find the Exact Circumference.

9.



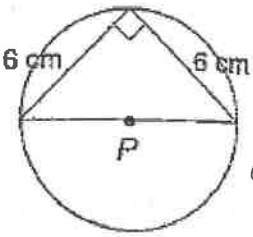
8π

10.



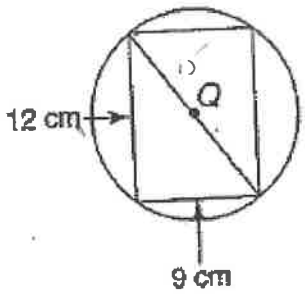
13π

11.



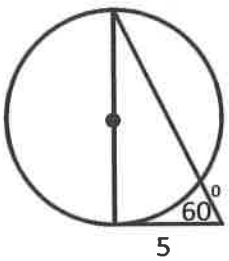
$6\sqrt{2}(\pi)$

12.



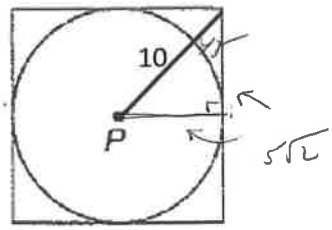
15π

13.



$5\sqrt{3}(\pi)$

14.



$5\sqrt{2}$

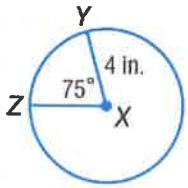
$10\sqrt{2}(\pi)$

Find the length of the indicated arc. Round to the nearest tenth as needed.

15. $\overset{\frown}{ZY}$

Circ = 25.12

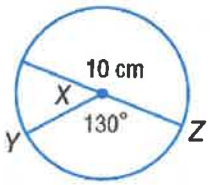
$\cdot \frac{75}{360} =$ 5.2



16. $\overset{\frown}{ZY}$

Circ = 31.4

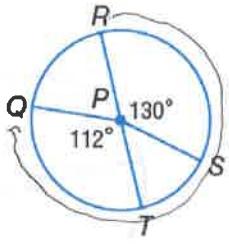
$\cdot \frac{130}{360} =$ 11.3



17. $\overset{\frown}{RSQ}$, *given* $RT = 15in$

Circ = 47.1 in

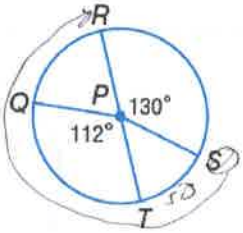
$\cdot \frac{292}{360} =$ 38.2 in



18. $\overset{\frown}{STR}$, *given* $PQ = 3$ *meters*

Circ = 18.84

$\cdot \frac{230}{360} =$ 12 m

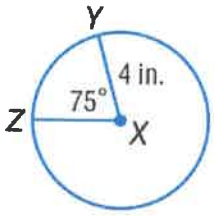


Find the area of the sector indicated. Round to the nearest tenth as needed.

19. *Sector YZX*

Area = 50.24 in^2

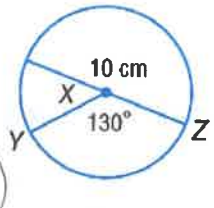
$\cdot \frac{75}{360} =$ 10.5 in^2



20. *Sector XYZ*

Area = ~~314~~ 78.5 cm^2

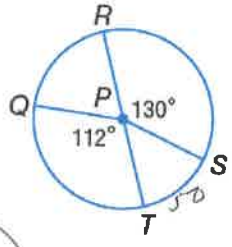
$\cdot \frac{130}{360} =$ ~~40.7~~ 28.3 cm^2



21. *Sector STP, given* $TR = 26in$

Area = 530.66 in^2

$\cdot \frac{50}{360} =$ 73.7 in^2



22. *Sector QSP, given* $PQ = 2$ *meters*

Area = 12.56 m^2

$\cdot \frac{162}{360} =$ 5.7 m^2