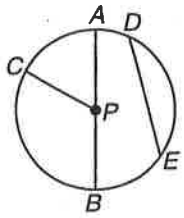
NAME _____ DATE _____ PERIOD ____

10-1 Skills Practice

Circles and Circumference

For Exercises 1–5, refer to the circle.



1. Name the circle.

⊙P

2. Name a radius.

$\overline{PA}$, $\overline{PB}$, $\overline{PC}$

3. Name a chord.

$\overline{AB}$ or $\overline{DE}$

4. Name a diameter.

$\overline{AB}$

5. Name a radius not drawn as part of a diameter.

$\overline{PC}$

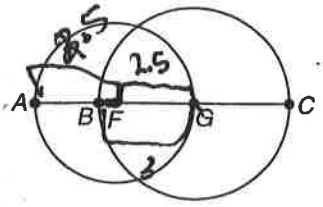
6. Suppose the diameter of the circle is 16 centimeters. Find the radius.

8cm

7. If $PC = 11$ inches, find AB.

22in

The diameters of ⊙F and ⊙G are 5 and 6 units, respectively. Find each measure.



8. BF

0.5

9. AB

2

The radius, diameter, or circumference of a circle is given. Find the missing measures to the nearest hundredth.

10. $r = 8$ cm

$d =$ 16cm, $C \approx$ 50.27cm

11. $r = 13$ ft

$d =$ 26ft, $C \approx$ 81.68ft

$C = \pi d$

12. $d = 9$ m

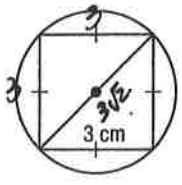
$r =$ 4.5m, $C \approx$ 28.27m

13. $C = 35.7$ in. $35.7 = \pi d$

$d \approx$ 11.36in, $r \approx$ 5.68in

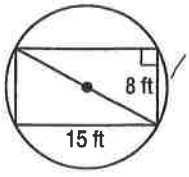
Find the exact circumference of each circle.

14.



$3\sqrt{2}\pi$ cm or $3\pi\sqrt{2}$cm

15.



17π ft.

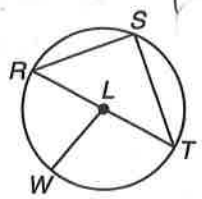
Lesson 10-1

NAME _____ DATE _____ PERIOD ____

10-1 Practice

Circles and Circumference

For Exercises 1–5, refer to the circle.



1. Name the circle. ⊙L

2. Name a radius. $\overline{LR}$, $\overline{LT}$, $\overline{LW}$

3. Name a chord. $\overline{RT}$, $\overline{RS}$, $\overline{ST}$

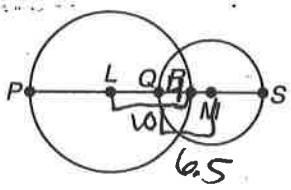
4. Name a diameter. $\overline{RT}$

5. Name a radius not drawn as part of a diameter. $\overline{LW}$ or $\overline{LS}$

6. Suppose the radius of the circle is 3.5 yards. Find the diameter. 7yd

7. If $RT = 19$ meters, find LW. 9.5m

The diameters of ⊙L and ⊙M are 20 and 13 units, respectively. Find each measure if $QR = 4$.



8. LQ 6

9. RM 2.5

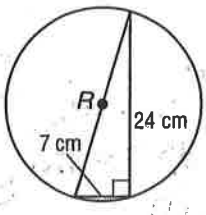
The radius, diameter, or circumference of a circle is given. Find the missing measures to the nearest hundredth.

10. $r = 7.5$ mm
$d =$ 15mm, $C \approx$ 47.12mm

11. $C = 227.6$ yd
$227.6 = \pi d$
$d \approx$ 72.45yd, $r \approx$ 36.22yd

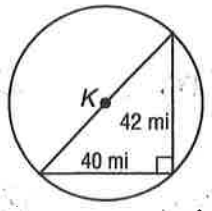
Find the exact circumference of each circle.

12.



25π cm

13.



58π mi

SUNDIALS For Exercises 14 and 15, use the following information.

Herman purchased a sundial to use as the centerpiece for a garden. The diameter of the sundial is 9.5 inches.

14. Find the radius of the sundial. 4.75in

15. Find the circumference of the sundial to the nearest hundredth. 29.85in