Circles 2.2

Geometry

1) State the ratio that defines pi.

Give the number of letters to name each object below.

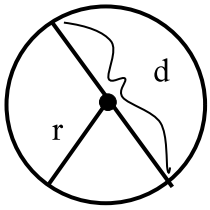
2) Secant 3) Semi-Circle 4) Angle

Use the information given in each problem below and the figure at the right to answer each question.

5) r = 11 in. Find d. 6) r = 27 yds. Find d. 7) r = 18.5 m. Find d.

8) d = 62 cm. Find r. 9) d = 28 ft. Find r. 10) d = 47 km. Find r.

11) d = 14.5 mi. Find r. 12) r = 93 mm. Find d. 13) r = 16 dm

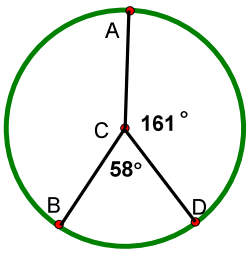


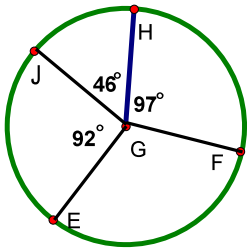
Use the figures at the right to find the indicated arc measure.

14) $m\widehat{AB}$ 15) $m\widehat{JH}$ 16) $m\widehat{AD}$

17) $m\widehat{HE}$ 18) $m\widehat{DBA}$ 19) $m\widehat{HFE}$

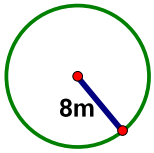
20) $m\widehat{ADB}$ 21) $m\widehat{FEH}$ 22) $m\widehat{JEF}$



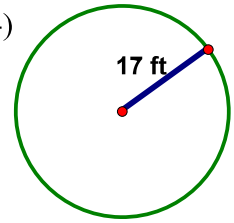


Find the circumference of the circle in each problem below in terms of pi and to the nearest tenth.

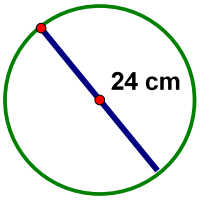
23)



24)



25)



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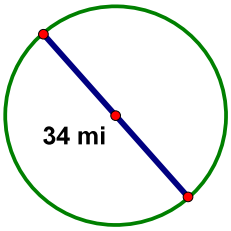


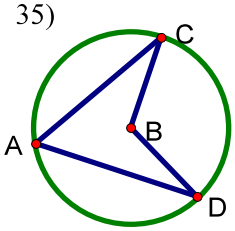
27) r = 5 mm 28) r = 19 km 29) d = 46 ft 30) d = 13 in

Given the circumference of a circle, find its' radius and diameter to the nearest tenth.

31) c = 18π m 32) c = 12π yds 33) c = 60 ft 34) c = 148 cm

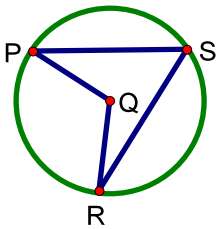
Given the measure of an arc, name its' central and inscribed angles and give their measures.

35)



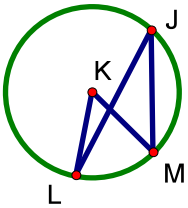
Arc CD = 116°

36)



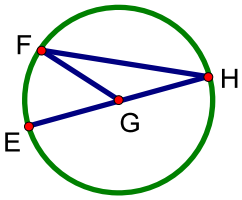
Arc PR = 102°

37)



Arc LM = 36°

38)



Arc EF = 44°