Circles 2.1
Geometry

1) State the ratio that defines pi.

Give the number of letters to name each object below.

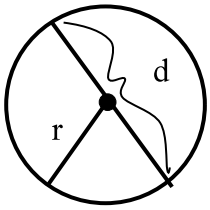
2) Diameter 3) Tangent 4) Minor arc

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

5) r = 8 in. Find d. 6) r = 15 yds. Find d. 7) r = 32 m. Find d.

8) d = 26 cm. Find r. 9) d = 14 ft. Find r. 10) d = 49 km. Find r.

11) d = 111 mi. Find r. 12) r = 78 mm. Find d. 13) r = 63 dm. Find d.

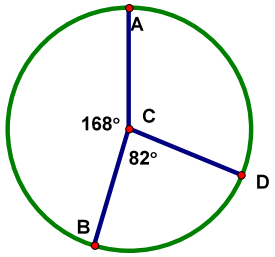


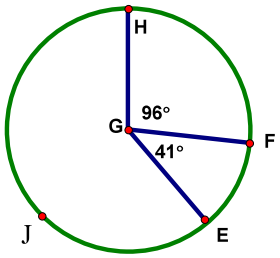
Use the figures at the right to find the indicated arc measure.

14) $m\overset{\frown}{AB}$ 15) $m\overset{\frown}{EH}$ 16) $m\overset{\frown}{AD}$

17) $m\overset{\frown}{HJE}$ 18) $m\overset{\frown}{DBA}$ 19) $m\overset{\frown}{HE}$

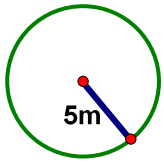
20) $m\overset{\frown}{ADB}$ 21) $m\overset{\frown}{FHE}$



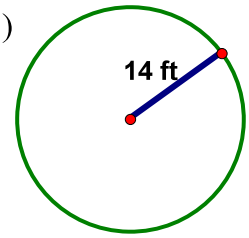


Find the circumference of the circle with the given radius or diameter in each problem below in terms of pi and to the nearest tenth.

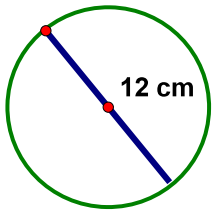
22)



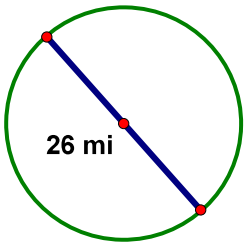
23)



24)



25)



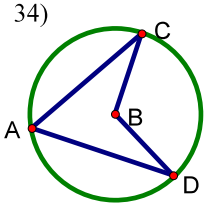
26) r = 9 mm 27) r = 15 km 28) d = 22 ft 29) d = 38 in

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

30) c = 16π m 31) c = 10π yds 32) c = 100 ft 33) c = 264 cm

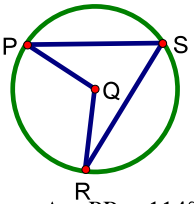
Given the measure of an arc, name its' central and inscribed angles and give their measures.

34)



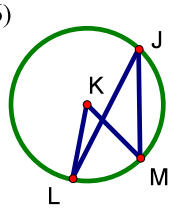
Arc CD = 120°

35)



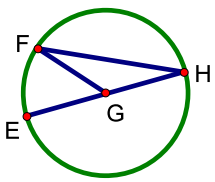
Arc PR = 114°

36)



Arc LM = 48°

37)



Arc EF = 50°