

8.1 Circles and Circumference

circle - the set of all points that are the same distance from a point called the center

radius - the distance from the center to any point on the circle

diameter - the distance across the circle through the center
(twice as long as the radius)

circumference - the distance around a circle (like perimeter)

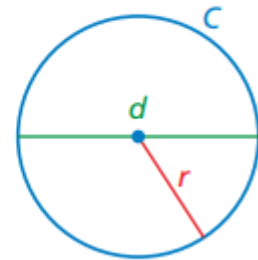


Key Idea

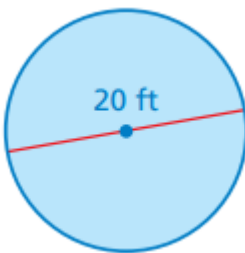
Circumference of a Circle

Words The circumference C of a circle is equal to π times the diameter d or π times twice the radius r .

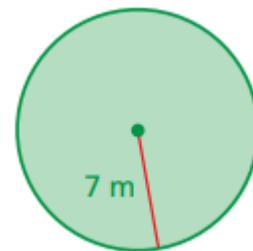
Algebra $C = \pi d$ or $C = 2\pi r$



Ex: Find the radius.



Ex: Find the diameter.



Find each circumference. Round to the nearest hundredth.

Ex:

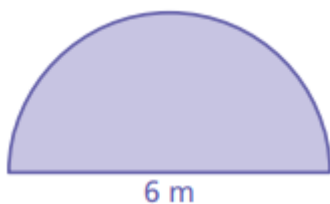


Ex:



Find each perimeter. Round to the nearest hundredth.

Ex:



Ex:

