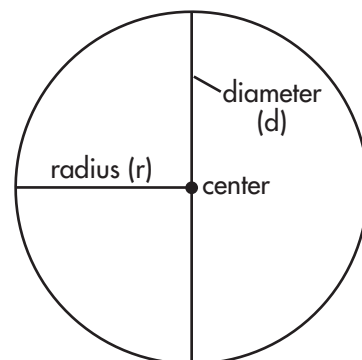


Lesson 5.5 Circles: Circumference

A **circle** is a set of infinite points that are all the same distance from a given point, called the **center**. The perimeter of a circle is called the **circumference**. The **diameter** is a segment that passes through the center of the circle and has both endpoints on the circle. The **radius** is a segment that has as its endpoints the circle and the center. The relationship between the circumference (C) and the diameter (d) is $C \div d = \pi$. Pi (π) is approximately $3\frac{1}{7}$ or 3.14. To find the circumference, diameter, or radius of a circle, use the formulas $C = \pi \times d$ or $C = 2 \times \pi \times r$.



Complete the table. Use 3.14 for π .

a	b	c
Diameter	Radius	Circumference
1. _____ feet	_____ feet	4.71 feet
2. 3.5 meters	_____ meters	_____ meters
3. _____ inches	3.25 inches	_____ inches
4. _____ yards	_____ yards	26.69 yards
5. 7.5 centimeters	_____ centimeters	_____ centimeters
6. _____ inches	15 inches	_____ inches
7. _____ meters	_____ meters	7.85 meters
8. 5 kilometers	_____ kilometers	_____ kilometers
9. _____ feet	_____ feet	31.4 feet
10. _____ centimeters	45 centimeters	_____ centimeters
11. 4 yards	_____ yards	_____ yards
12. _____ miles	_____ miles	9.42 miles