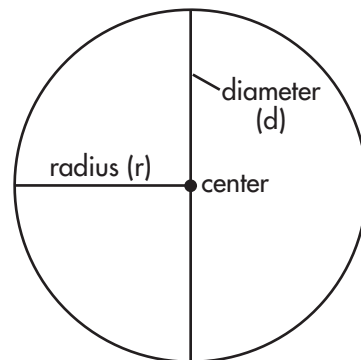


Lesson 5.5 Circles: Circumference

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 Diameter	b Radius	c 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

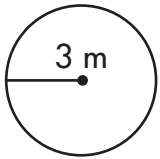
Lesson 5.5 Circles: Circumference

Complete the chart for each circle described below. Use 3.14 for π . When necessary, round to the nearest hundredth.

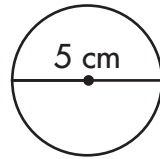
	a Radius	b Diameter	c Circumference
1.	2 m	_____ m	_____ m
2.	_____ cm	18 cm	_____ cm
3.	_____ mm	9.2 mm	_____ mm
4.	5.5 in.	_____ in.	_____ in.
5.	12.2 cm	_____ cm	_____ cm
6.	_____ ft.	5 ft.	_____ ft.
7.	17 mm	_____ mm	_____ mm
8.	$3\frac{1}{2}$ ft.	_____ ft.	_____ ft.
9.	_____ cm	13 cm	_____ cm
10.	_____ yd.	3.8 yd.	_____ yd.
11.	3 cm	_____ cm	_____ cm
12.	_____ m	7 m	_____ m
13.	_____ km	4 km	_____ km
14.	4.5 in.	_____ in.	_____ in.
15.	5.6 mm	_____ mm	_____ mm

Lesson 5.5 Circles: Circumference

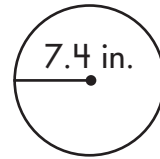
Find the circumference for each circle below. Use 3.14 for π . When necessary, round to the nearest hundredth.

a**b****c****1.**

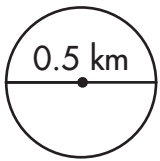
_____ m



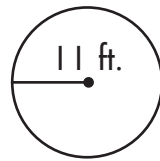
_____ cm



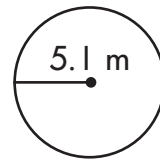
_____ in.

2.

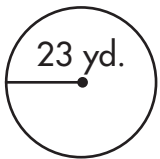
_____ km



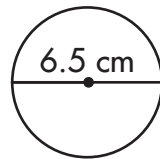
_____ ft.



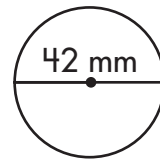
_____ m

3.

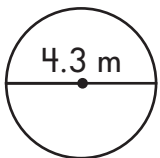
_____ yd.



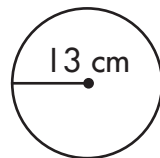
_____ cm



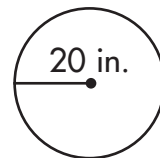
_____ mm

4.

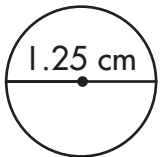
_____ m



_____ cm



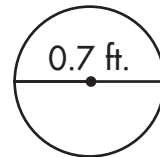
_____ in.

5.

_____ cm



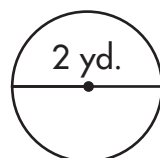
_____ in.



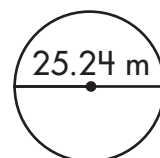
_____ ft.

6.

_____ mi.



_____ yd.



_____ m