



Circumference of circles

Name _____

Score _____

CC:19



Find the radius from the given circumference of the circle. (Use $\pi = \frac{22}{7}$ or 3.14)

1) Circumference = 31.4 yd

$$\text{Circumference} = 2\pi r$$

$$31.4 \text{ yd} = 2 \times 3.14 \times r$$

$$31.4 \text{ yd} = 6.28 \times r$$

$$r = \frac{31.4}{6.28}$$

r = 5 yd

Find the diameter from the given circumference of the circle. (Use $\pi = \frac{22}{7}$ or 3.14)

1) Circumference = 31.4 in

$$\text{Circumference} = \pi d$$

$$31.4 \text{ in} = 3.14 \times d$$

$$d = \frac{31.4}{3.14}$$

d = 10 in

2) Circumference = 18.84 in

Radius =

3) Circumference = 9.42 ft

Radius =

4) Circumference = 20π yd

Radius =

5) Circumference = 4.4π ft

Radius =

6) Circumference = 37.68 in

Radius =

2) Circumference = 9π yd

Diameter =

3) Circumference = 69.08 in

Diameter =

4) Circumference = 24.492 ft

Diameter =

5) Circumference = 5.6π in

Diameter =

6) Circumference = 25.12 yd

Diameter =





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Answer key

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Find the radius from the given circumference of the circle. (Use $\pi = \frac{22}{7}$ or 3.14)

1) Circumference = 31.4 yd

$$\text{Circumference} = 2\pi r$$

$$31.4 \text{ yd} = 2 \times 3.14 \times r$$

$$31.4 \text{ yd} = 6.28 \times r$$

$$r = \frac{31.4}{6.28}$$

r = 5 yd

Find the diameter from the given circumference of the circle. (Use $\pi = \frac{22}{7}$ or 3.14)

1) Circumference = 31.4 in

$$\text{Circumference} = \pi d$$

$$31.4 \text{ in} = 3.14 \times d$$

$$d = \frac{31.4}{3.14}$$

d = 10 in

2) Circumference = 18.84 in

Radius = **3 in**

3) Circumference = 9.42 ft

Radius = **1.5 ft**

4) Circumference = 20π yd

Radius = **10 yd**

5) Circumference = 4.4π ft

Radius = **2.2 ft**

6) Circumference = 37.68 in

Radius = **6 in**

2) Circumference = 9π yd

Diameter = **9 yd**

3) Circumference = 69.08 in

Diameter = **22 in**

4) Circumference = 24.492 ft

Diameter = **7.8 ft**

5) Circumference = 5.6π in

Diameter = **5.6 in**

6) Circumference = 25.12 yd

Diameter = **8 yd**

