Circumference of circles

Name _____

Score _____

CC:21

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

1) Circumference = 12.56 ft

Circumference = 2πr

$12.56 \text{ ft} = 2 \times 3.14 \times r$

$12.56 \text{ ft} = 6.28 \times r$

$r = \dfrac{12.56}{6.28}$ **r = 2 ft**

2) Circumference = 20.724 ft

Radius =

3) Circumference = 13π yd

Radius =

4) Circumference = 75.36 in

Radius =

5) Circumference = 8π in

Radius =

6) Circumference = 50.24 yd

Radius =

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

1) Circumference = 8.478 yd

Circumference = πd

$8.478 \text{ yd} = 3.14 \times d$

$d = \dfrac{8.478}{3.14}$ **d = 2.7 yd**

2) Circumference = 26.69 ft

Diameter =

3) Circumference = 3π yd

Diameter =

4) Circumference = 29.202 in

Diameter =

5) Circumference = 34.54 yd

Diameter =

6) Circumference = 7.6π ft

Diameter =

Circumference of circles

Answer key

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

1) Circumference = 12.56 ft

Circumference = $2\pi r$

$12.56 \text{ ft} = 2 \times 3.14 \times r$

$12.56 \text{ ft} = 6.28 \times r$

$r = \dfrac{12.56}{6.28}$ **r = 2 ft**

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2) Circumference = 20.724 ft

Radius =   **3.3 ft**

3) Circumference = 13π yd

Radius =   **6.5 yd**

4) Circumference = 75.36 in

Radius =   **12 in**

5) Circumference = 8π in

Radius =   **4 in**

6) Circumference = 50.24 yd

Radius =   **8 yd**

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

1) Circumference = 8.478 yd

Circumference = πd

$8.478 \text{ yd} = 3.14 \times d$

$d = \dfrac{8.478}{3.14}$ **d = 2.7 yd**

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2) Circumference = 26.69 ft

Diameter =   **8.5 ft**

3) Circumference = 3π yd

Diameter =   **3 yd**

4) Circumference = 29.202 in

Diameter =   **9.3 in**

5) Circumference = 34.54 yd

Diameter =   **11 yd**

6) Circumference = 7.6π ft

Diameter =   **7.6 ft**