



Circumference of circles

Name _____

Score _____

CC:23

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

Example

Circumference	Radius	Diameter
10.048 m	$C = 2\pi r$ $10.048 \text{ m} = 2 \times 3.14 \times r$ $10.048 \text{ m} = 6.28 \times r$ $r = \frac{10.048}{6.28}$	$C = \pi d$ $10.048 \text{ m} = 3.14 \times d$ $d = \frac{10.048}{3.14}$
	r = 1.6 m	d = 3.2 m

1)

Circumference	Radius	Diameter
21.98 mm		

2)

Circumference	Radius	Diameter
25.12 cm		

3)

Circumference	Radius	Diameter
$10.2\pi \text{ m}$		

4)

Circumference	Radius	Diameter
81.64 mm		

5)

Circumference	Radius	Diameter
18.84 mm		

6)

Circumference	Radius	Diameter
$4.6\pi \text{ cm}$		

7)

Circumference	Radius	Diameter
$22\pi \text{ m}$		

8)

Circumference	Radius	Diameter
78.5 cm		



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Answer key

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10.048 m	$C = 2\pi r$ $10.048 \text{ m} = 2 \times 3.14 \times r$ $10.048 \text{ m} = 6.28 \times r$ $r = \frac{10.048}{6.28}$ $r = 1.6 \text{ m}$	$C = \pi d$ $10.048 \text{ m} = 3.14 \times d$ $d = \frac{10.048}{3.14}$ $d = 3.2 \text{ m}$

1)

Circumference	Radius	Diameter
21.98 mm	3.5 mm	7 mm

2)

Circumference	Radius	Diameter
25.12 cm	4 cm	8 cm

3)

Circumference	Radius	Diameter
$10.2\pi \text{ m}$	5.1 m	10.2 m

4)

Circumference	Radius	Diameter
81.64 mm	13 mm	26 mm

5)

Circumference	Radius	Diameter
18.84 mm	3 mm	6 mm

6)

Circumference	Radius	Diameter
$4.6\pi \text{ cm}$	2.3 cm	4.6 cm

7)

Circumference	Radius	Diameter
$22\pi \text{ m}$	11 m	22 m

8)

Circumference	Radius	Diameter
78.5 cm	12.5 cm	25 cm