Circumference of circles

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

Example 1

1 cm

Circumference of circle = 2πr

Radius (r) = 1 cm

Circumference = 2 × 3.14 × 1

= 6.28 cm

Example 2
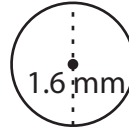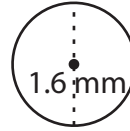
1.6 mm

Diameter (d) = 2 × Radius (r)

Circumference of circle = 2πr or πd

diameter = 1.6 mm

Circumference = π × d

= 3.14 × 1.6

= 5.02 mm

Find the circumference and radius/diameter of each circle (Use $\pi = \frac{22}{7}$ or 3.14). Round the answer to the two decimal places.
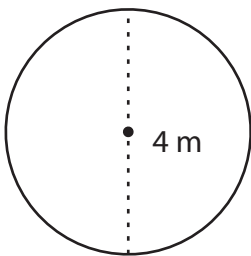
1)

2.1 mm
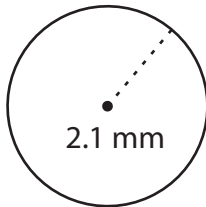
Diameter = _____ mm

Circumference = _____ mm

2)

4 m
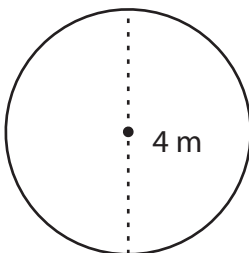
Radius = _____ m

Circumference = _____ m

3) Diameter = 5 mm

Radius = _____ mm

Circumference = _____ mm

4) Radius = 13 cm

Diameter = _____ cm

Circumference = _____ cm

5) Diameter = 9.2 m

Radius = _____ m

Circumference = _____ m

6) Radius = 4.3 mm

Diameter = _____ mm

Circumference = _____ mm

7) The diameter of the car wheel is 10 cm. What will be the radius and the circumference of the car wheel. Round the answer to the two decimal places.

Radius = _____ cm   Circumference = _____ cm

Circumference of circles

CC:12

Find the circumference of the circle. (Use π = $\frac{22}{7}$ or 3.14)

Example 1

Circumference of circle = 2πr

Radius (r) = 1 cm

Circumference = 2 × 3.14 × 1

= 6.28 cm

1 cm

Example 2

Diameter (d) = 2 × Radius (r)

Circumference of circle = 2πr or πd

diameter = 1.6 mm

Circumference = π × d

= 3.14 × 1.6

= 5.02 mm

1.6 mm

Find the circumference and radius/diameter of each circle (Use π = $\frac{22}{7}$ or 3.14). Round the answer to the two decimal places.

1)

2.1 mm

Diameter = **4.2** mm

Circumference = **13.19** mm

2)

4 m

Radius = **2** m

Circumference = **12.56** m

3) Diameter = 5 mm

Radius = **2.5** mm

Circumference = **15.7** mm

4) Radius = 13 cm

Diameter = **26** cm

Circumference = **81.64** cm

5) Diameter = 9.2 m

Radius = **4.6** m

Circumference = **28.89** m

6) Radius = 4.3 mm

Diameter = **8.6** mm

Circumference = **27** mm

7) The diameter of the car wheel is 10 cm. What will be the radius and the circumference of the car wheel. Round the answer to the two decimal places.

Radius = **5** cm   Circumference = **31.4** cm