Circumference of Circle

FREE Worksheet - 1

Time: 15 minutes

(Detailed solutions at the end)

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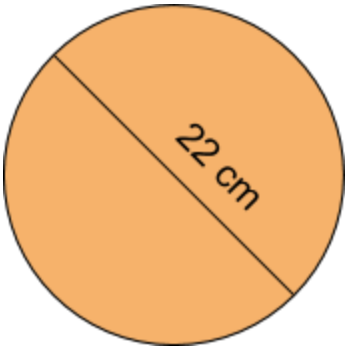
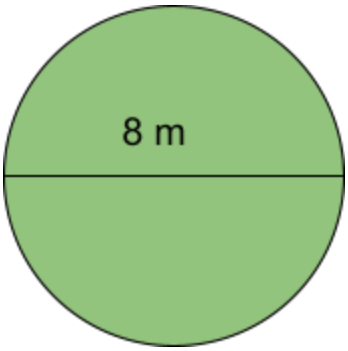
1. A circle has a diameter of 22 cm. Find the circumference of the circle. Round off your answer to the nearest hundredth. (π = 22 / 7)



Answer:_____cm

2. Danny is tiling a circular piece of land. What is the circumference of the land rounded off to 2 decimal places? (Diameter = 8m, π = 22 / 7)



Answer:_____m

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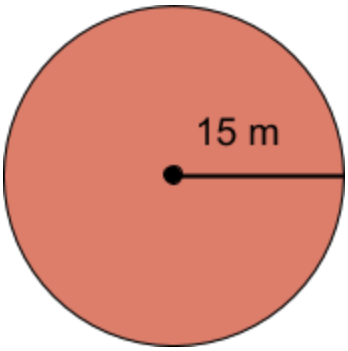
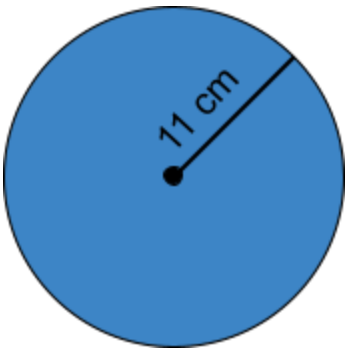
3. A circle has a radius of 15 m. Find the circumference of the circle. Round off your answer to the nearest hundredth. (π = 22 / 7)



Answer:_____m

4. Christine bent a piece of wire into a ring as shown below. What is the circumference of the ring rounded off to 2 decimal places? (Radius = 11 cm, π = 22 / 7)



Answer:_____cm

SOLUTIONS

Problem 1

We know,

Circumference of a circle = π × Diameter

Given,

Diameter = 22 cm

π = 22 / 7

Therefore,

Circumference = 22 / 7 × 22 cm

= ***69.14 cm***

Problem 2

We know,

Circumference of a circle = π × Diameter

Given,

Diameter = 8 m

π = 22 / 7

Therefore,

Circumference = 22 / 7 × 8 m

= ***25.14 cm***

Problem 3

We know,

Circumference of a circle = 2 × π × Radius

Given,

Radius = 15 m

π = 22 / 7

Therefore,

Circumference = 2 × 22 / 7 × 15 m

= ***94.29 m***

Problem 4

We know,

Circumference of a circle = 2 × π × Radius

Given,

Radius = 11 cm

π = 22 / 7

Therefore,

Circumference = 2 × 22 / 7 × 11 cm

= ***66.14 cm***