

Start Tasks – Answers



1. Name the straight line that touches a circle at exactly one point, and the straight line that passes through its centre from edge to edge.

Solution

Tangent (touches at one point); diameter (through the centre, edge to edge).

2. State the diameter of this circle.



Solution

$$\begin{aligned}\text{Diameter} &= 2 \times 4 \\ &= 8 \text{ cm}\end{aligned}$$

3. State the radius of this circle.



Solution

$$\begin{aligned}\text{Radius} &= 12 \div 2 \\ &= 6 \text{ m}\end{aligned}$$

4. A circle has diameter 20 cm. What is its radius?

Solution

$$\begin{aligned}\text{Radius} &= 20 \div 2 \\ &= 10 \text{ cm}\end{aligned}$$

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5. Find the circumference of this circle.



Solution

$$\begin{aligned}C &= 2\pi r = 2 \times 3.14 \times 7 \\&= 43.96 \text{ cm}\end{aligned}$$

6. Find the circumference of this circle.



Solution

$$\begin{aligned}C &= \pi d = 3.14 \times 10 \\&= 31.4 \text{ m}\end{aligned}$$

7. A circular pond has radius 3 m. What is its circumference?

Solution

$$\begin{aligned}C &= 2 \times 3.14 \times 3 \\&= 18.84 \text{ m}\end{aligned}$$

8. A bicycle wheel has diameter 50 cm. What is its circumference?

Solution

$$\begin{aligned}C &= 3.14 \times 50 \\&= 157 \text{ cm}\end{aligned}$$

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9. Calculate the area of this circle.



Solution

$$\begin{aligned}A &= \pi r^2 = 3.14 \times 5^2 \\&= 3.14 \times 25 = 78.5 \text{ cm}^2\end{aligned}$$

10. Calculate the area of this circle.



Solution

$$\begin{aligned}r &= 7; A = 3.14 \times 7^2 \\&= 3.14 \times 49 = 153.86 \text{ m}^2\end{aligned}$$

11. A circular table has diameter 1.2 m. What is its area?

Solution

$$\begin{aligned}r &= 0.6; A = 3.14 \times 0.6^2 \\&= 3.14 \times 0.36 = 1.13 \text{ m}^2\end{aligned}$$

12. A circular rug has radius 2.5 m. Find its area.

Solution

$$\begin{aligned}A &= 3.14 \times 2.5^2 \\&= 3.14 \times 6.25 = 19.63 \text{ m}^2\end{aligned}$$