

83. Working with π (Pi) in Calculations

Practice Questions

1. Approximate π to 3 decimal places.
2. Find the circumference of a circle with radius = 7 cm using $\pi \approx 3.14$.
3. What is the area of a circle with diameter = 10 cm?
4. Solve $\pi \times 5^2$.
5. A circle has an area of $\pi \times 9^2$. What is its area?
6. Find the circumference of a circle with diameter = 14 cm.
7. Calculate the area of a circle with a radius of 6 cm.
8. Find the radius of a circle if its circumference is 31.4 cm.
9. What is the diameter of a circle with an area of $\pi \times 25$?
10. Solve $\pi \times 8^2 - \pi \times 6^2$.

Scenario Questions

1. A pizza has a diameter of 12 inches. Find its area.
2. A tyre has a radius of 30 cm. Find its circumference.
3. A circular tablecloth has a diameter of 2m. Find its area.
4. A running track has a circular section with a radius of 40m. Find its circumference.
5. A satellite dish is 1.5m in radius. What is its surface area?
6. A clock face has a diameter of 24 cm. Find its circumference.
7. A round pond has a radius of 3m. Find its area.
8. A cyclist rides along a circular path with a diameter of 20m. How far do they travel in one full lap?
9. A circular trampoline has a radius of 2.5m. Find its area.
10. A circular plate has an area of $\pi \times 16$. What is its radius?

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Practice Questions

1. 3.142
2. 43.96 cm ($2 \times 3.14 \times 7$)
3. 78.5 cm² (3.14×5^2)
4. 78.5 (3.14×25)
5. 254.34 cm² (3.14×81)
6. 43.96 cm (3.14×14)
7. 113.04 cm² (3.14×36)
8. 5 cm ($31.4 / (2 \times 3.14)$)
9. 10 cm ($2 \times \sqrt{25}$)
10. 87.92 ($3.14 \times 64 - 3.14 \times 36$)

Scenario Questions

1. 113.04 in² (3.14×6^2)
2. 188.4 cm ($2 \times 3.14 \times 30$)
3. 3.14 m² (3.14×1^2)
4. 251.2 m ($2 \times 3.14 \times 40$)
5. 7.065 m² (3.14×1.5^2)
6. 75.36 cm (3.14×24)
7. 28.26 m² (3.14×9)
8. 62.8 m (3.14×20)
9. 19.625 m² (3.14×6.25)
10. 4 cm ($\sqrt{16}$)