

CIRCUMFERENCE FORMULA

While the circumference and perimeter share similarities, there's a fundamental distinction between these two terms. The perimeter refers to the length of the outline of a shape with straight sides, while the circumference specifically pertains to the length of a circle's outline. The concept of circumference relates to the complete distance around the curved geometric shape.

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Q1: What is the formula for finding the circumference of a circle when you know its area?

- A: $C = 2\pi\sqrt{\text{Area}}$
 - B: $C = 2\sqrt{\pi\text{Area}}$
 - C: $C = \pi\sqrt{\text{Area}}$
 - D: There is no direct formula for this calculation.
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Q2: What is the perimeter of a circle with a radius of 9 inches?

- A: 18 inches
 - B: 27 inches
 - C: 54 inches
 - D: 81 inches
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Q3: Which term is synonymous with 'perimeter' when referring to a circle?

- A: Circumference
 - B: Radius
 - C: Diameter
 - D: Area
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Q4: What is the value of Pi(π)?

- A: 20/7
 - B: 22/7
 - C: 22/6
 - D: 24/3
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Q5: What is the circumference of a circle with a diameter of 10 cm?

- A: 31.43 cm²
 - B: 30.67 cm
 - C: 32.89 cm
 - D: 31.43 cm
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Q6: What is the diameter of a circle with a radius of 6 cm?

- A: 12 cm²
 - B: 36 cm
 - C: 12 cm
 - D: 36 cm²
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Q7: What is the circumference of a circle with a diameter of 100 cm?

- A: 314.29 cm
 - B: 300 cm²
 - C: 320 cm
 - D: 310.33 cm
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Q8: What is the Radius of the circle with a Diameter of 22 cm?

- A: 44 cm
 - B: 11 cm
 - C: 44 cm²
 - D: 11 cm²
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Q9: What is the Circumference of a circle with an Area of 30 cm²?

- A: 19.42 cm²
 - B: 16.72 cm
 - C: 16.72 cm²
 - D: 19.42 cm
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Q10: What is the circumference of a circle with a diameter of 50 cm?

- A: 160 cm
 - B: 145 cm
 - C: 157 cm
 - D: 100 cm
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Answers

Q1: D - There is no direct formula for this calculation.

Q2: C - 54 inches

Q3: A - Circumference

Q4: B - $22/7$

Q5: D - 31.43 cm

Q6: C - 12 cm

Q7: A - 314.29 cm

Q8: B - 11 cm

Q9: D - 19.42 cm

Q10: C - 157 cm