Edulyte

AREA OF A CIRCLE FORMULA

The area of a circle is the area enclosed by a circle with its radius and circumference. There are numerous circular objects in real life whose area you need to calculate, and it is very useful to calculate the region occupied by a circular plot. The area of a circle formula is also very useful for civil engineers. There are many circular shapes that they have to design, and calculating the area of these shapes is a primary part of that job.

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Q1: If the diameter of a circle is 12 inches, what is its radius?

A: 3 inches
B: 6 inches
C: 9 inches
D: 12 inches

Q2: What is the area of a circle with a diameter of 10 meters?

A: 5π square meters
B: 25π square meters
C: 50π square meters
D: 100π square meters

Q3: If the area of a circle is 36 square centimeters, what is its radius?

A: 3 cm
B: 4 cm
C: 5 cm
D: 6 cm

Q4: Identify the formula to calculate the Area of a Circle

A: πr
B: $2\pi r^2$
C: $\pi r/2$
D: Πr^2

Q5: Identify the formula to calculate the Area of the Circumference

A: πr^2
B: πr^3
C: $2\pi r$
D: Πr

Q6: What is the diameter of a circle with a radius of 8 cm?

A: 16 cm
B: 12 cm
C: 14 cm
D: 4 cm

Q7: What is the area of a circle with a radius of 4 cm?

A: 10 cm^2
B: 50 cm^2
C: 50 cm
D: 17 cm^2

Q8: What is the area of circumference with a diameter of 5 cm?

A: 16 cm^2
B: 31 cm
C: 10 cm
D: 16 cm

Q9: What is the approximate value of pi(π)?

A: 3.14159
B: 3.159
C: 3.8
D: 3

Q10: What is the area of a circle with a radius of 3 cm?

A: 28 cm^2
B: 20 cm
C: 28 cm
D: 20 cm^2

Answers

Q1: B - 6 inches

Q2: B - 25π square meters

Q3: A - 3 cm

Q4: D - Πr²

Q5: C - 2πr

Q6: A - 16 cm

Q7: B - 50 cm²

Q8: D - 16 cm

Q9: A - 3.14159

Q10: C - 28 cm