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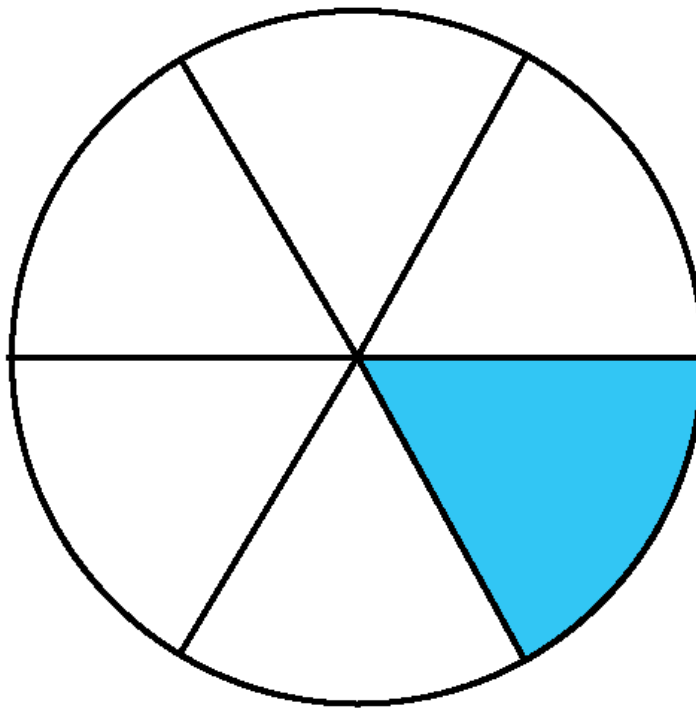
## Area and Circumference of a Circle Worksheet I

Q.1 What is the formula for the area of a circle?

- a.  $\pi r^2$
- b.  $\pi r^2 h$
- c.  $2\pi r$
- d.  $\pi d$

Q.2 Circumference of a Circle with diameter 'd' is \_\_\_\_\_

Q.3 If the area of a given circle is 314.15 sq. unit. What is the area of the shaded portion of a circle?

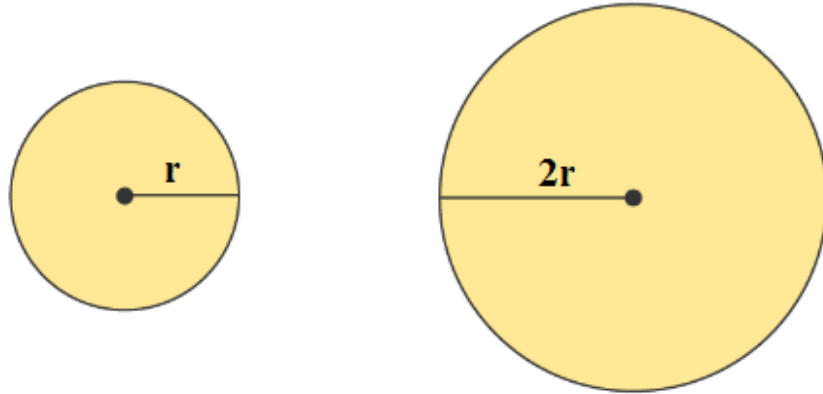


Q.4 What is the area of a semi-circle if its radius is 12 units.

- a. 226.195 sq. units
- b. 226 sq. units
- c. 12 sq. units
- d. 195 sq. units

Q.5 What is the circumference of a semi-circle if its diameter is 14 units.

Q.6 If the radius of a circle is doubled, What would be the ratio of the old area of a circle to the new area of a circle?



Q.7 What is the radius of the circular carpet. If the area of carpet is  $144\pi$  sq. in.

Q.8 A square is inscribed by a circle having a radius of 6in. Each vertex of the square lies on the circle, Find the shaded area of the given figure.

Q.9 If the circumference of a semicircle is 71.982 units. What is the area and radius of a semicircle?

Q.10 If a plate occupies the area of  $64\pi$  sq. in, what will be half of the circumference of a plate?

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- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

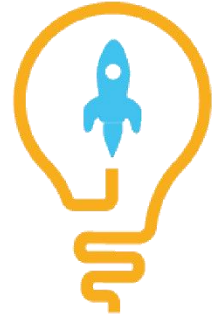
- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1. $\pi r^2$	2. $\pi d$	3. 52.35 sq units	4. 226.195 sq. units	5. 35.99 units
6. 1:4	7. 12 in.	8. 41.04 sq. in.	9. Area- 307.876, radius- 14	10. $8\pi$ Or 25.12 units

## FUN FACT

1. The length of rope that wraps around the circle's boundary perfectly will be equal to its circumference.
2. The surface area of a circle is the same as the area of a circle.
3. Pi ( $\pi$ ) is the ratio of circumference to diameter of any circle.

