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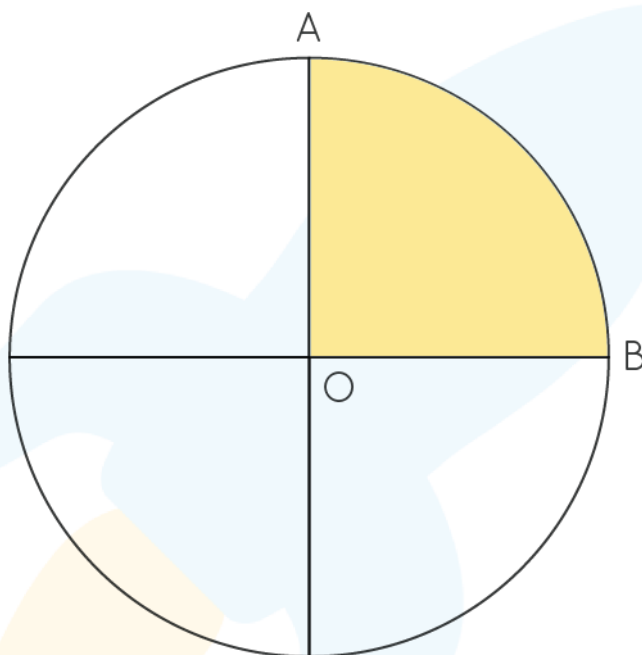
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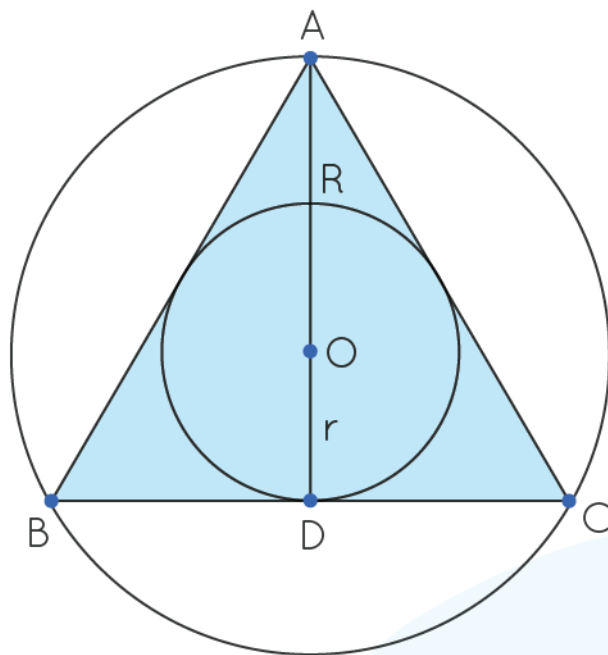
7th Grade Radius and Diameter Worksheets

Questions

1. Find the radius of a circle, having the largest chord of length 24 units.
2. What is the radius of a quadrant of a circle having the length of the curve as 40π units?



3. What is the radius of a circle inscribed in rectangle of length 12 units and breadth 18 units?
4. Find the diameter of the circle inscribed in a square of side 8 units.
5. Find the radius of a circle having an area of 144π square units.
6. Find the ratio of the radius of the circumcircle and incircle of an equilateral triangle.



7. Find the diameter of a cone of least radius, carved out from a cuboid of dimensions 4 units x 5 units x 6 units.
8. Find the diameter of the largest circle, which can be inscribed in a rectangle of length 12 units, and breadth 15 units.
9. A semicircle has an area of 5π square units. Find the radius of the semicircle.
10. A chord and two radii of the circle make an equilateral triangle of perimeter 21 units. Find the diameter of this circle.

**When you learn math
in an interesting way,
you never forget.**



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Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- 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)	12 units
(2)	80 units
(3)	6 units
(4)	8 units
(5)	12 units
(6)	Ratio: 2 : 1
(7)	10 units
(8)	12 units
(9)	$\sqrt{10}$ units
(10)	7 units

FUN FACT

1. Did you know that the only shape with one side and having an area is a circle?
2. A circle has infinite radiuses and diameters.
3. On dividing the circumference of a circle, it results in a pi.



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