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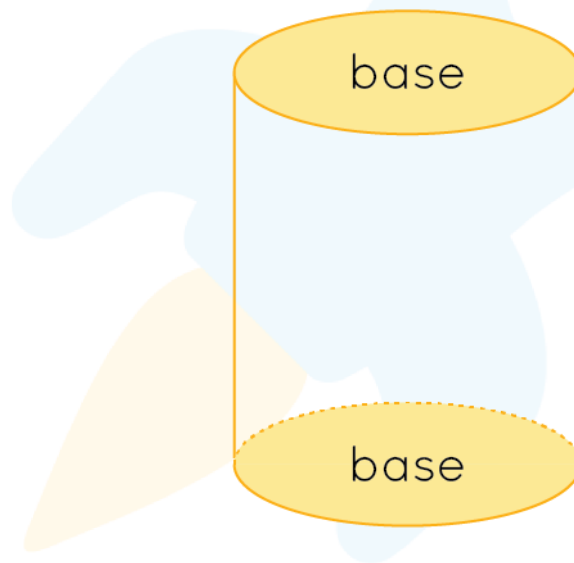
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Volume of a cylinder Worksheet

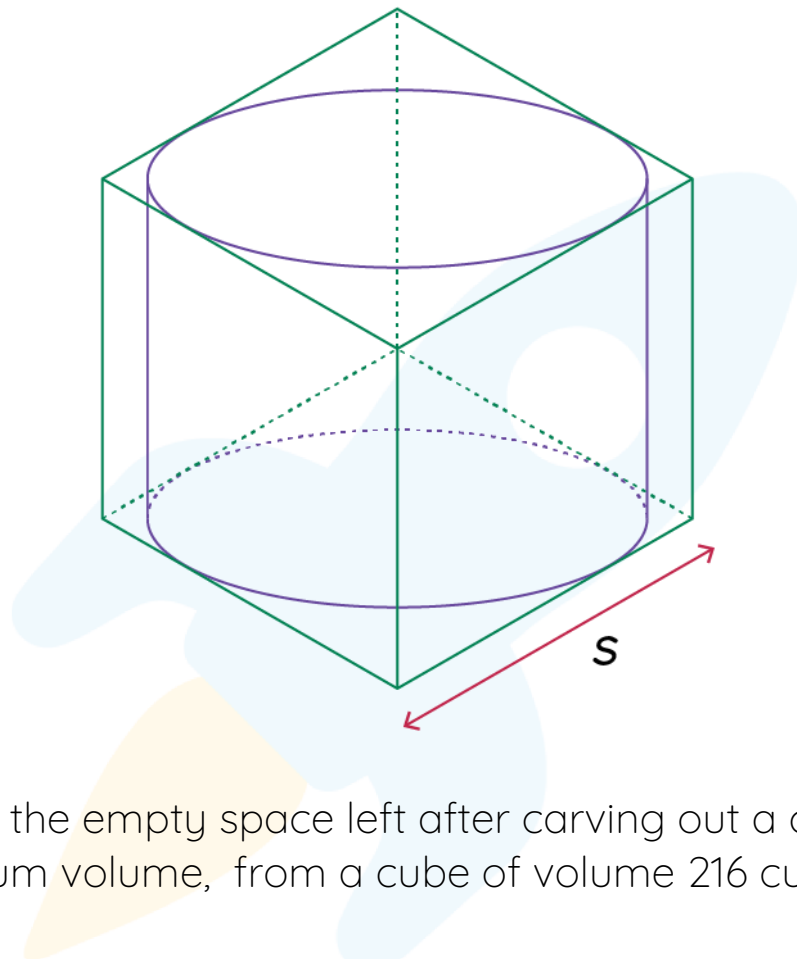
Questions

1. Find the volume of a cylinder having a radius of 5 units and a height of 7 units.
2. What is the radius of a cylinder having a height of 8 units, and a volume of 72π cubic units?
3. The area of the base of a cylinder is 4π square units. Find the volume of this cylinder having a height of 6 units.



4. What is the height of a cylinder having a volume of 135π square units and a radius of 3 units?
5. What is the area of the base of a cylinder having a volume of 60π cubic units, and a height of 12 units?

6. Find the volume of the largest cylinder which can be carved out of a cube of volume 64 cubic meters.



7. What is the empty space left after carving out a cylinder of maximum volume, from a cube of volume 216 cubic meter?
8. What is the volume of a cylinder of radius 2 units, which can be carved out of a cuboid having the dimensions 4 units x 4 units x 8 units?
9. How many cylinders of diameter 1 unit, and height 3 units can be cut out of a cuboid block of dimensions 3 units x 5 units x 9 units?
10. How many liters of water is needed to fill a circular swimming pool of diameter 14 feet and a depth of 4 feet?

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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)	550 cubic units
(2)	3 units
(3)	24π cubic unit
(4)	15 units
(5)	5π cubic units
(6)	16π cubic meters
(7)	$(216 - 54\pi)$ cubic units
(8)	32π cubic units
(9)	45 cylinders
(10)	616000 liters