Math Practice - Grade 8

M11 Volume of cylinders, cones, spheres - Find a missing dimension

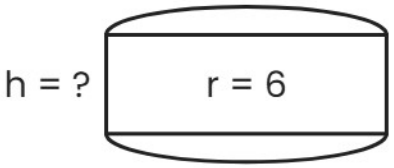
M11 8.G.C.9

Name: _____ Date: _____

The volume is given. Find the missing radius or height.

Example: The volume of the cylinder is 1243.44. Use pi = 3.14. Find the missing height.

How: Put the volume and the known dimension into the formula, then undo the operations to find the missing radius or height.



Use pi = 3.14

Height 11

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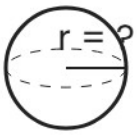
1 **The volume of the sphere is 113.04. Use pi = 3.14. Find the missing radius.**



Use pi = 3.14

Radius _____

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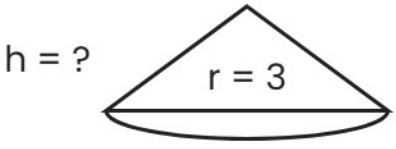
2 **The volume of the cone is 75.36. Use pi = 3.14. Find the missing height.**



Use pi = 3.14

Height _____

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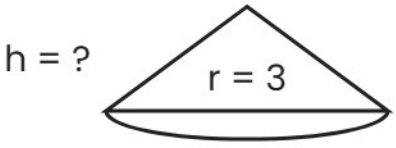
3 **The volume of the cone is 103.62. Use pi = 3.14. Find the missing height.**



Use pi = 3.14

Height _____

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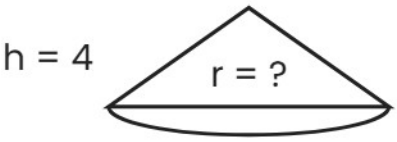
The volume is given. Find the missing radius or height.

Example: The volume of the cone is 37.68. Use pi = 3.14. Find the missing radius.

How: Put the volume and the known dimension into the formula, then undo the operations to find the missing radius or height.



Use pi = 3.14

Radius 3

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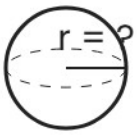
1 **The volume of the sphere is 113.04. Use pi = 3.14. Find the missing radius.**



Use pi = 3.14

Radius _____

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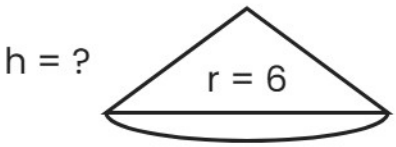
2 **The volume of the cone is 301.44. Use pi = 3.14. Find the missing height.**



Use pi = 3.14

Height _____

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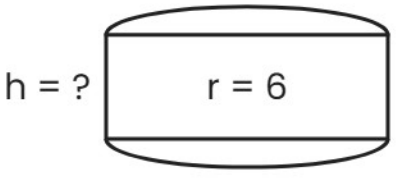
3 **The volume of the cylinder is 904.32. Use pi = 3.14. Find the missing height.**



Use pi = 3.14

Height _____

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Name: _____ Date: _____

The volume is given. Find the missing radius or height.

Example: The volume of the sphere is 113.04. Use pi = 3.14. Find the missing radius.

How: Put the volume and the known dimension into the formula, then undo the operations to find the missing radius or height.



Use pi = 3.14

Radius 3

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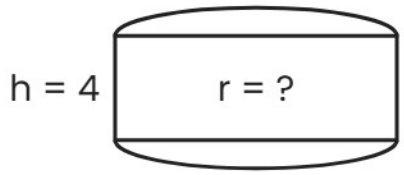
1 **The volume of the cylinder is 200.96. Use pi = 3.14. Find the missing radius.**



Use pi = 3.14

Radius _____

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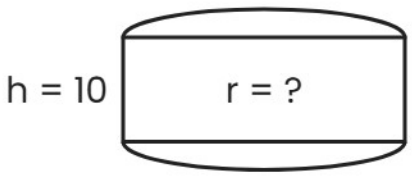
2 **The volume of the cylinder is 125.6. Use pi = 3.14. Find the missing radius.**



Use pi = 3.14

Radius _____

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3 **The volume of the sphere is 904.32. Use pi = 3.14. Find the missing radius.**



Use pi = 3.14

Radius _____