Math Practice - Grade 8

M11 Volume of cylinders, cones, spheres - A cone is one third of a cylinder

M11 8.G.C.9

Name: _____ Date: _____

Read the volumes. Write the missing volume in the box.

Example: Use pi = 3.14. A cylinder holds 471 cubic units. A cone has the same base and height. How much does the cone hold?

How: A cone and a cylinder with the same base and height hold volumes in the ratio one to three, so the cone holds one third of the cylinder.



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1 **Use pi = 22/7. A cone holds 154 cubic units. A cylinder has the same base and height. How much does the cylinder hold?**



Cylinder Cone

Cylinder volume ☐

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2 **Use pi = 22/7. A cylinder holds 924 cubic units. A cone has the same base and height. How much does the cone hold?**



Cylinder Cone

Cone volume ☐

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3 **Use pi = 22/7. A cylinder holds 462 cubic units. A cone has the same base and height. How much does the cone hold?**



Cylinder Cone

Cone volume ☐

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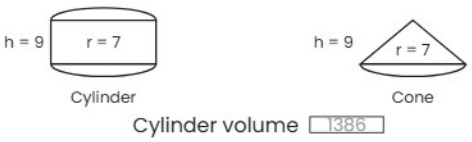
M11 8.G.C.9

Name: _____ Date: _____

Read the volumes. Write the missing volume in the box.

Example: Use pi = 22/7. A cone holds 462 cubic units. A cylinder has the same base and height. How much does the cylinder hold?

How: A cone and a cylinder with the same base and height hold volumes in the ratio one to three, so the cone holds one third of the cylinder.



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1 **Use pi = 3.14. A cone holds 314 cubic units. A cylinder has the same base and height. How much does the cylinder hold?**



Cylinder Cone

Cylinder volume ☐

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2 **Use pi = 3.14. A cone holds 157 cubic units. A cylinder has the same base and height. How much does the cylinder hold?**



Cylinder Cone

Cylinder volume ☐

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3 **Use pi = 3.14. A cylinder holds 471 cubic units. A cone has the same base and height. How much does the cone hold?**



Cylinder Cone

Cone volume ☐

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M11 8.G.C.9

Name: _____ Date: _____

Read the volumes. Write the missing volume in the box.

Example: Use pi = 3.14. A cylinder holds 942 cubic units. A cone has the same base and height. How much does the cone hold?

How: A cone and a cylinder with the same base and height hold volumes in the ratio one to three, so the cone holds one third of the cylinder.



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1 **Use pi = 22/7. A cylinder holds 462 cubic units. A cone has the same base and height. How much does the cone hold?**



Cylinder Cone

Cone volume ☐

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2 **Use pi = 22/7. A cone holds 308 cubic units. A cylinder has the same base and height. How much does the cylinder hold?**



Cylinder Cone

Cylinder volume ☐

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3 **Use pi = 22/7. A cone holds 462 cubic units. A cylinder has the same base and height. How much does the cylinder hold?**



Cylinder Cone

Cylinder volume ☐