

Smarter Balanced Assessment Item Illustrating 8.G.C.9

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A sphere and the base of a cone have a radius of 3 inches. The volume of the sphere equals the volume of the cone. What is the height of the cone, in inches?

Enter the height, in inches.

Answer Key

12

Elaboration on Alignment

This item nicely integrates the expectations of 8.G.C.9 which requires students to solve mathematical problems that use the formulas for volumes of cones, cylinders and spheres with students' work on solving equations in the EE domain.

Learn More

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