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| **Determining the Volume of Prisms and Cylinders** |
| Understands that the volume of a right prism is the area of its base times heightThe volume of the right triangular prism is 20 × 8 = 160 cm3. | Determines the volume of a right cylinderarea of base: $π$ × *r*2 ≈ 3.14 × 52 = 78.5The area of the base is about 78.5 cm2.Volume: *A* × *h* ≈ 78.5 × 8  = 628The volume is about 628 cm3. | Understands that orientation of a right prism or right cylinder does not affect its volumeThe cylinders have the same volume because they have the same radius and height. | Determines a missing dimension of a right prism or right cylinderWhat is the approximate height of the cylinder?Volume:  *V* = $π$*r*2*h* 452 ≈ 3.14 × 62 × *h* 452 = 113.04 × *h* *h* = 452 ÷ 113.04 *h* ≈ 4 The height is about 4 cm. |
| **Observations/Documentation** |
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