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| **Determining the Volume of Prisms and Cylinders** |
| Understands that *volume* is a measure of the space filled by an objectThe volume of the prism is 24 unit cubes. | Understands that the volume of a prism is the product of the area of its base and its heightVolume of the triangular prism is: 20 × 8 = 160The volume is 160 cm3. | Determines the volume of a cylinderBase area of cylinder is: π × 52Height of cylinder is: 8Volume of the cylinder is: π × 52 × 8 = 628.318…The volume is about 628 cm3. | Determines the area of the base, volume, or height of a rectangular prism or cylinder when given two of the three measurements What is the approximate height of the cylinder?Volume:  *V* = π*r*2*h* 452 = π × 62 × *h* 452 = 113.09… × *h*  *h* ≈ 452 ÷ 113 *h* ≈ 4 The height is about 4 cm. |
| **Observations/Documentation** |
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