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| **Determining the Volume of Prisms and Cylinders** | | | |
| Understands that *volume* is a measure of the space filled by an object    The 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 height    Volume of the triangular prism is:  20 × 8 = 160 The volume is 160 cm3. | Determines the volume of a cylinder    Base area of cylinder is: π × 52 Height of cylinder is: 8  Volume 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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