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| **Determining the Volume of Rectangular 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 rectangular prism is the product of the area of its base and its height    area of the base: 9 × 8 = 72  The area of the base is 72 m2.  area of base × height: 72 × 2 = 144  The volume of the box is 144 m3. | Determines the volume of a cylinder    area of base:  π × *r*2 ≈ 3.14 × 52  = 78.5  The area of the base is  about 78.5 cm2.  Volume:  *A* × *h* ≈ 78.5 × 8  = 628  The volume is about 628 cm3. | Determines a missing measurement when given the other measurements    What is the approximate height  of the cylinder?  Volume:   *V* = *πr*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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