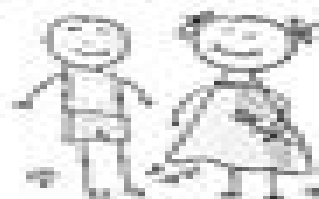


Answer Key

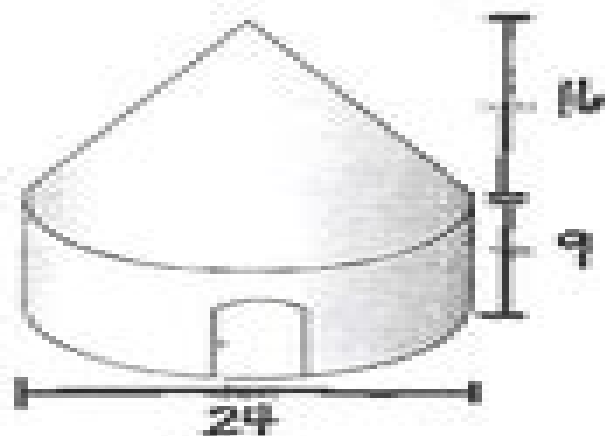
Volume of Cylinders and Cones

Meet my friends Cecil and Cory! They love each other so much - almost as much as they love Geometry.

Cecilia and Cory are weirdly obsessed with cylinders and cones (can you tell why?). They love them so much, that their entire lives revolve around these 3-Dimensional figures. Check this out!



Cecil and Cory live in a perfectly cylindrical home topped off with a cone shaped roof.



Cecil and Cory wear hats that are composed of a cylinder and a cone. Below is a diagram.



Calculate the volume of their home.

$$\text{Base} = \pi r^2$$

$$952.16 \cdot 9 = 4,069.44$$

$$\pi r^2$$

$$952.16 \times \frac{16}{3} = 2,411.52$$

$$\text{Total} = 6,480.96 \text{ units}^3$$

Calculate the volume of the 2 hats.

$$5\pi = 78.5 \times 2 = 157 \text{ cylinder}$$

$$5\pi = 78.5 \times \frac{13}{3} = 340.17$$

$$497.17 \text{ cm}^3$$

Lesson 6 10 Spheres Problem Solving

Helmut Breitmeier



Lesson 6 10 Spheres Problem Solving:

Maths Problem Solving Year 3 Catherine Yemm, 2011-03-08 Maths Problem Solving Year 3 is the third of six books in the Maths Problem Solving series. The books have been written for teachers to use during the numeracy lesson. They cover the solving problem objectives from the numeracy framework. This book contains three chapters: Making decisions, Reasoning about numbers or shapes, and Problems involving real life money or measures. The books are designed in such a way that each section has six stages of questions to be worked through. Every stage is split into three levels for example 1a, 1b or 1c based on achievement. Each corresponding question from these levels follows the same line of questioning so that when the teacher talks about a certain question the solution process is the same for each level but the complexity of the sum varies.

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