NYS COMMON CORE MATHEMATICS CURRICULUM

Lesson 21 8•7

## **Lesson 21: Volume of Composite Solids**

## Classwork

## Exercises 1-4

a. Write an expression that can be used to find the volume of the chest shown below. Explain what each part of your expression represents. (Assume the ends of the top portion of the chest are semicircular.)

Rectangular + 
$$\frac{1}{2}$$
 Cylinder

Reism +  $\frac{1}{2}$  Cylinder

Roh +  $\frac{1}{2}$  ( $\pi r^2 h$ )

 $\frac{1}{2}$  ( $\pi r^2 h$ )

b. What is the approximate volume of the chest shown above? Use 3.14 for an approximation of  $\pi$ . Round your final answer to the tenths place.

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