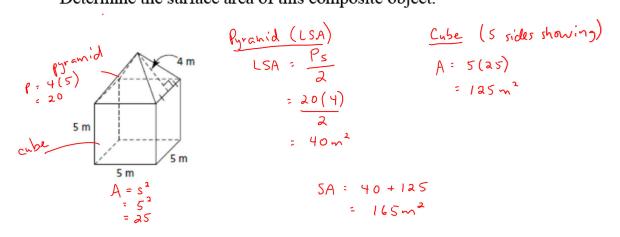
MAAPC20S Measurement Lesson 6

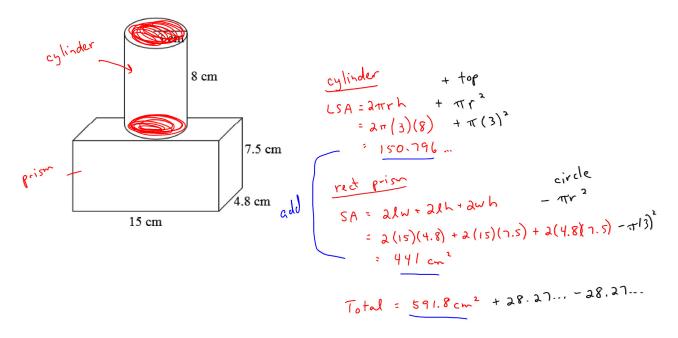
Example 1 - Determining the Surface Area of a Composite Object

Determine the surface area of this composite object.



Example 2

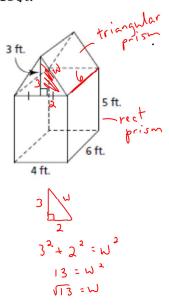
Determine the surface area of the following complex object to the nearest tenth of a centimeter.



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Example 3 - Solving a Problem Related to a Composite Object

A tool shed is formed by a rectangular prism with a triangular prism as its roof. Determine the surface area of the tool shed to the nearest square foot.



Triangular prism

2 triangles and 2 rectangles

$$A = \frac{bh}{A} \times A$$

$$= \frac{4(3)}{2} \times A$$

$$= \frac{6(\sqrt{3}) \times 2}{2}$$

$$= 12 \text{ ft}^2$$

Rect prism

$$A = \frac{botton}{4} = \frac{2 \text{ sides}}{5(6)} + \frac{2 \text{ sides}}{5(4)}$$

$$= 124 \text{ ft}^2$$

$$SA = 12 + 43.2666... + 124$$

$$= 179 \text{ ft}^2$$

Assignment: Day 1; Pg 59; 5 (only volume), 7 (a,c,d), 8, 9, 10

Day 2; Pg 59; 3, 5 (surface area), 6

Review

Review pg 64-67