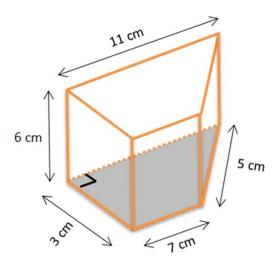
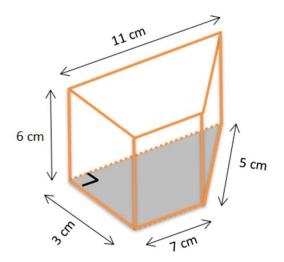
Surface Area Worksheets

1. Find the surface area of the right trapezoidal prism. Show all necessary work.



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$$SA = LA + 2B$$

$$LA = P \cdot h$$

$$LA = (3 cm + 7 cm + 5 cm + 11 cm) \cdot 6 cm$$

$$LA = 26 cm \cdot 6 cm$$

$$LA = 156 cm^{2}$$

Each base consists of a 3 cm by 7 cm rectangle and right triangle with a base of 3 cm and a height of 4 cm.

Therefore, the area of each base:

$$B = A_r + A_t$$

$$B = lw + \frac{1}{2}bh$$

$$B = (7 cm \cdot 3 cm) + (\frac{1}{2} \cdot 3 cm \cdot 4 cm)$$

$$B = 21 cm^2 + 6 cm^2$$

$$B = 27 cm^2$$

$$SA = LA + 2B$$

 $SA = 156 cm^2 + 2(27 cm^2)$
 $SA = 156 cm^2 + 54 cm^2$
 $SA = 210 cm^2$

The surface of the right trapezoidal prism is $210 \ cm^2$.