

# Warm Up



1. Determine the value of  $\sqrt{0.09}$ . (Without a calculator)  $\sqrt{0.36}$

0.3                      0.6

2. Which fraction is a perfect square? (WITHOUT A CALCULATOR)

a)  $\frac{49}{60}$        b)  $\frac{49}{225}$        c)  $\frac{28}{225}$        d)  $\frac{7}{15}$

3. This object is made from 7 cubes with dimensions of 1 x 1 x 1. Determine its surface area.



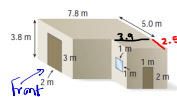
$A = b \times h$   
 $= 1 \times 1$   
 $= 1 \text{ units}^2$

Each cube =  $1 \text{u}^2 \times 6 \text{ faces}$   
 $= 6 \text{ units}^2$

Overlap  $A = 1 \text{ units}^2 \times 4 \text{ faces} = 4 \text{ units}^2$

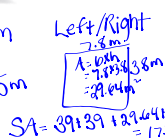
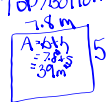
7 cubes  $\times 6 \text{ units}^2 = 42 \text{ units}^2$

Final SA =  $42 - 4 = 38 \text{ units}^2$



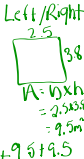
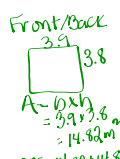
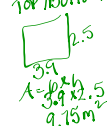
Pg 31 #10

Large Prism



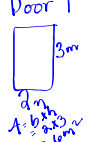
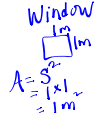
SA =  $39 + 39 + 29.64 + 29.64 + 15 + 15 = 175.28 \text{ m}^2$

Small Prism



SA =  $9.5 + 9.5 + 9.5 + 9.5 + 9.5 + 9.5 = 68.14 \text{ m}^2$

Doors/Windows



Final SA

Large + Small - Blarge - Bsmall - W1 - W2

$175.28 + 68.14 - 39 - 9.5 - 1 - 6 - 2 = 185.67 \text{ m}^2$

$\$15/\text{m}^2 \times 185.67 \text{ m}^2$   
 $= \$2785.05$

# Class/ Homework

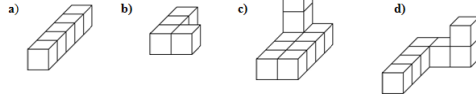
You seen how I showed all my work with last nights homework, you must do the same for this worksheet. (No shortcuts)

Name \_\_\_\_\_ Date \_\_\_\_\_

**Master 1.18** Extra Practice 3

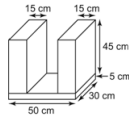
**Lesson 1.3: Surface Areas of Objects Made from Right Rectangular Prisms**

1. Each cube has edge length 2 unit. Determine the surface area of each object.



2. Each edge of a linking cube is 1 unit long. Build a composite object with 7 linking cubes. Exchange objects with a classmate. Determine the surface area of your classmate's object. Check each other's work.

3. Determine the surface area of this composite object.

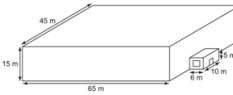


4. The local curling rink is shown in the diagram at the right. It is to be painted.

a) Determine the surface area of the structure.

b) The roof, windows, and door are not to be painted. The door is 1 m by 2 m and the window is 4 m by 2 m. Determine the surface area to be painted.

c) A can of paint covers  $300 \text{ m}^2$  and costs \$45. Determine the cost of the paint needed.



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