

page 30 & 31

Questions

10

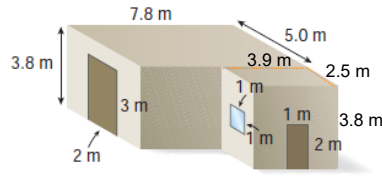
Extra Practice 3 Worksheet

Questions

All Questions

10) A garage has the dimension shown. The attached shed has the same height as the garage, but is one-half as long and one-half a width

Remember you do not have to put anything on the floor windows and doors



BUT 2 faces involved for each overlap
 THUS must multiply by 2 to get total overlapped area

Step 1) Calculate the sides of all of the larger prism,

Step 2) Front building : dimensions 3.8 m x 2.5 m x 3.9 m

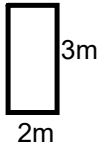
roof:

front/back:

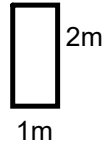
left side and right side:

- b) Vinyl siding costs $\$15/\text{m}^2$. The doors, windows, and roof will not be covered with siding. How much will it cost to cover this building with siding?

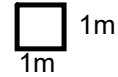
Door 1



Door 2




Window




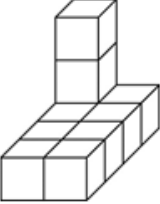
Class/ Homework

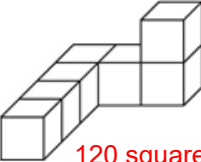
Lesson 1.3: Surface Areas of Objects Made from Right Rectangular Prisms

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

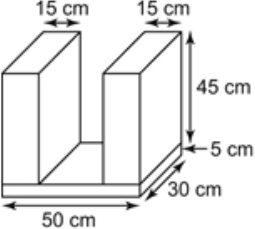
a)  **88 squared units**

b)  **72 squared units**

c)  **144 squared units**

d)  **120 squared units**

2. Determine the surface area of this composite object.

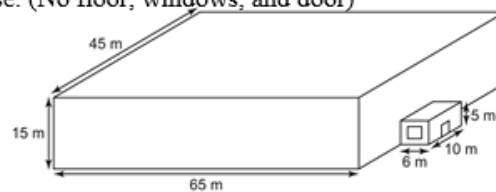


11 900 squared units

3. The local curling rink is shown in the diagram at the right.

- a) Determine the surface area of the warehouse. (No floor, windows, and door)

6345 m²



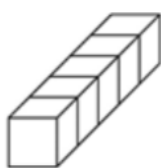
- b) The door is 1 m by 2 m and the window is 4 m by 2 m. Determine the surface area to be painted. **6335 m²**

- c) A can of paint covers 300 m² and costs \$45. Determine the cost of the paint needed. **\$990**

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.

a)



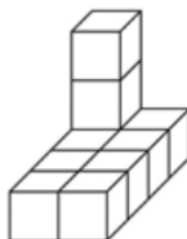
88 squared units

b)



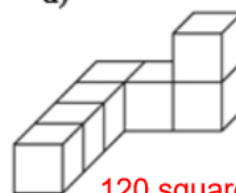
72 squared units

c)



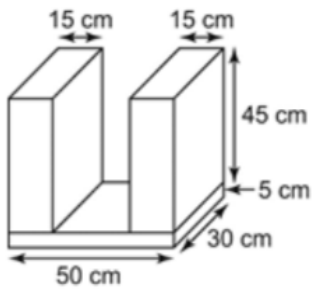
144 squared units

d)



120 squared units

2. Determine the surface area of this composite object.

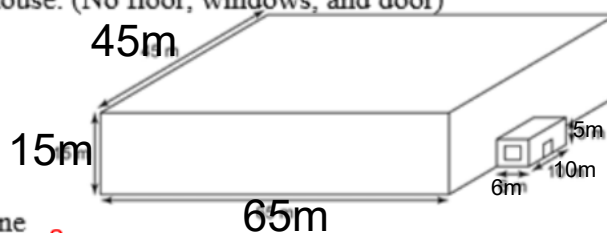


11 900 squared units

3. The local curling rink is shown in the diagram at the right.

a) Determine the surface area of the warehouse. (No floor, windows, and door)

$$6345 \text{ m}^2$$



b) The door is 1 m by 2 m and the window is 4 m by 2 m. Determine the surface area to be painted. 6335 m^2

c) A can of paint covers 300 m^2 and costs \$45. Determine the cost of the paint needed. $\$990$