## **Curriculum Outcome**

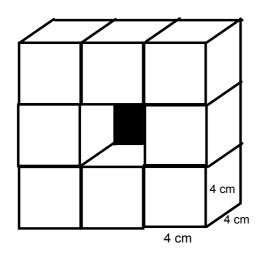
(SS2) Determine the surface area of composite 3-D objects to solve problems

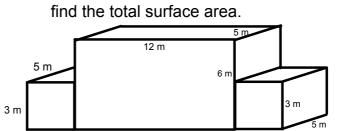
Student Friendly:

Calculating the surface area of connecting rectangle prisms. (Quiz review)

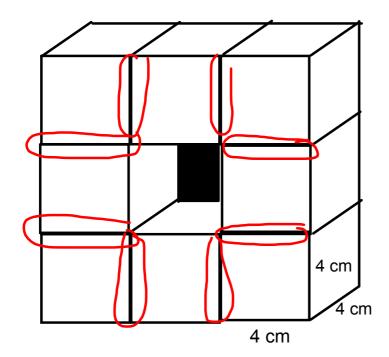


Find the total surface area knowing that all cubes are identical.



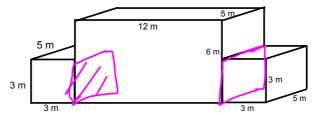


Find the total surface area knowing that all cubes are identical.



$$A = bxh$$
  
 $A = 4x4$   
 $A = 16cm^2$ 

find the total surface area.



Big 
$$(5, 6, 12)$$

$$5 2 5 2 12$$

$$A = b \times h$$

$$A = b \times h$$

$$A = 5 \times 2$$

$$A = 5 \times 2$$

$$A = 5 \times 2$$

$$A = 60$$

$$A = 72$$

$$2A = 60$$

$$2A = 120$$

$$2A = 144$$

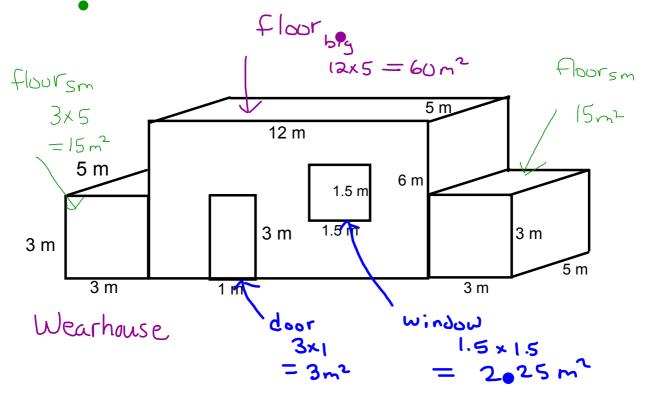
$$SA_2 = 18 + 30 + 30$$
 $SA_3 = 18 + 30 + 30$ 
 $SA_3 = 78 m^2$ 
 $SA_3 = 78 m^2$ 

$$T_{SA} = SA_1 + SA_2 + SA_3 - OVER - OVER$$

$$= 324 + 78 + 78 - 30 - 30$$

$$= 42.0 m^2$$

find the total surface area of this warehouse.



$$T_{SA} = Part A_{Ans} - Bigfloor - Snall floor - door - window$$

$$420 - 60 - 15 - 15 - 3 - 2.25$$

$$= 324.75m^{2}$$

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

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



b)



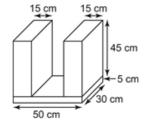
c)



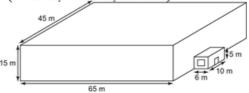




2. Determine the surface area of this composite object.



- 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)

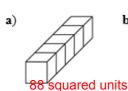


- b) The door is 1 m by 2 m and the window is 4 m by 2 m. Determine the surface area to be painted.
- c) A can of paint covers 300 m<sup>2</sup> and costs \$45. Determine the cost of the paint needed.

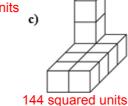


## Lesson 1.3: Surface Areas of Objects Made from Right Rectangular Prisms

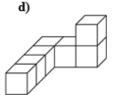
Each cube has edge length 2 unit.
 Determine the surface area of each object.



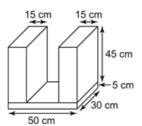
72 squared units



120 squared units



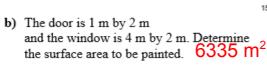
2. Determine the surface area of this composite object.

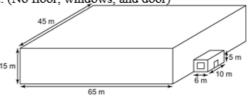


11 900 squared units

- 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 m<sup>2</sup>





 A can of paint covers 300 m<sup>2</sup> and costs \$45. Determine the cost of the paint needed. \$990