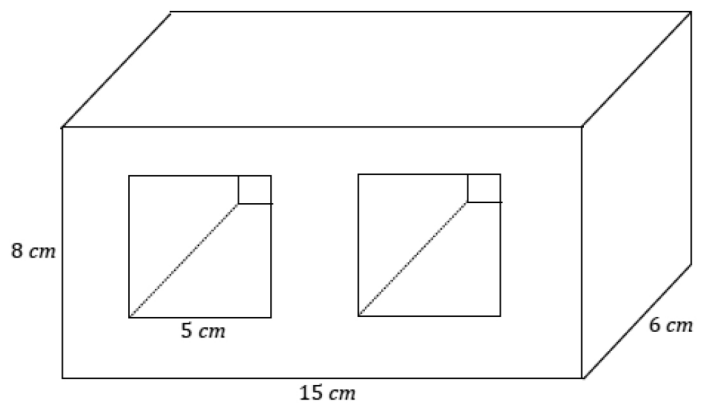


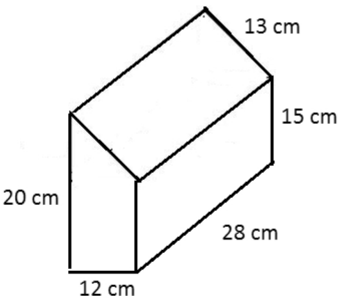
## Surface Area

Determine the surface area of the right rectangular prism after the two square holes have been drilled. Explain how you determined the surface area.

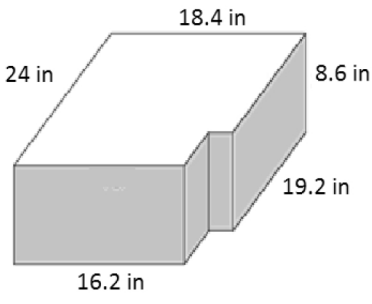


Determine the surface area of each figure.

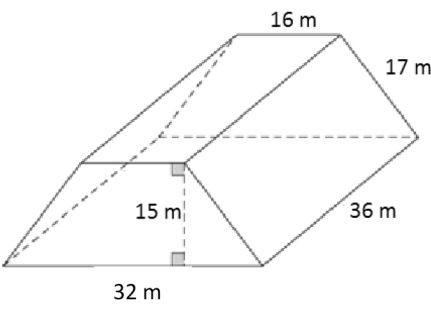
1. In addition to the calculation of the surface area, describe how you found the surface area.



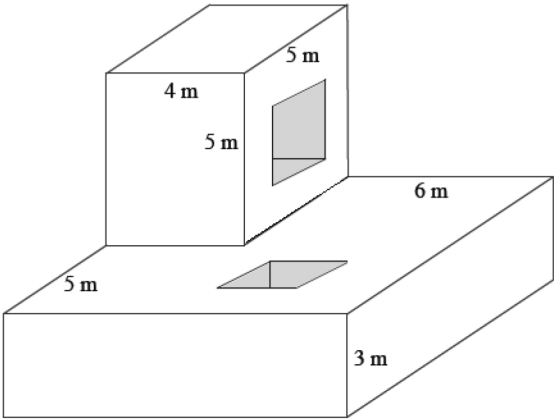
2.



3.



4. Determine the surface area after two square holes with a side length of 5 m are drilled through the solid figure composed of two rectangular prisms.



5. The base of a right prism is shown below. Determine the surface area if the height of the prism is 10 cm. Explain how you determined the surface area.

Determine the surface area of the right rectangular prism after the two square holes have been drilled. Explain how you determined the surface area.

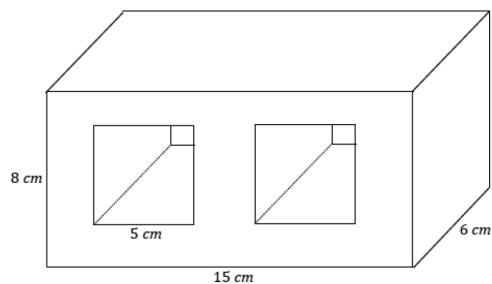
Area of top and bottom

Area of sides

Area of front and back

Area inside

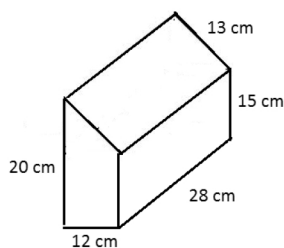
Surface Area



Take the sum of the areas of the four lateral faces of the main rectangular prism, and subtract the areas of the four square cuts from the area of the bases of the main rectangular prism. Finally, add the lateral faces of the prisms that were cut out of the main prism.

Determine the surface area of each figure.

- In addition to the calculation of the surface area, describe how you found the surface area.



Area of top

Area of bottom

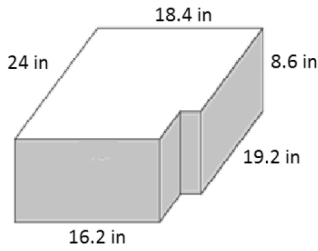
Area of left and right sides

Area of front and back sides

Surface area

Split the area of the two trapezoidal bases, take the sum of the areas, and then add the areas of the four different sized rectangles that make up the lateral faces.

2.



Area of front and back

in. in.  $in^2$

Area of sides

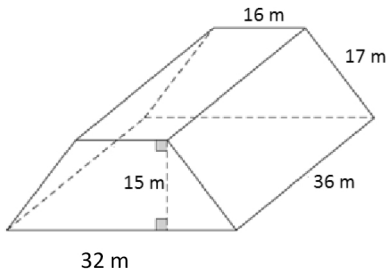
Area of top and bottom

in. in. in. in.  
 $in^2$   $in^2$   
 $in^2$

Surface Area

$in^2$   $in^2$   $in^2$   
 $in^2$

3.



Area of front and back

—

Area of top

Area of left and right sides

Area of bottom

Surface Area

4. Determine the surface area after two square holes with a side length of m are drilled through the solid figure composed of two rectangular prisms.

Surface Area of Top Prism Before the Hole is Drilled:

Area of top

Area of front and back

Area of sides

Surface Area of Bottom Prism Before the Hole is Drilled:

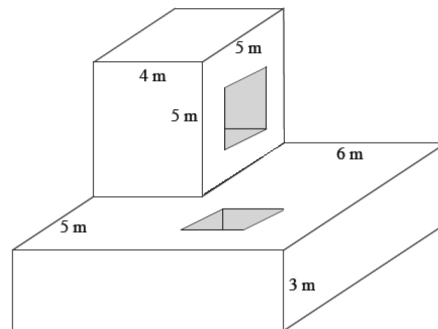
Area of top

Area of bottom

Area of front and back

Area of sides

Surface area

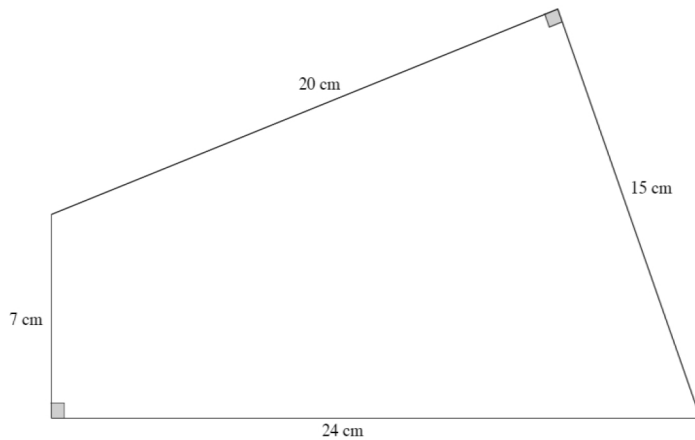


Surface Area of Interiors:

Area of Interiors

5. The base of a right prism is shown below. Determine the surface area if the height of the prism is  $\quad$  cm. Explain how you determined the surface area.

*Take the sum of the areas of the two bases made up of two right triangles, and add to it the sum of the areas of the lateral faces made up by rectangles of different sizes.*



*Area of sides*

*Area of bases*

— —

*Surface area*