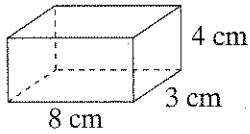


Practice 9-8

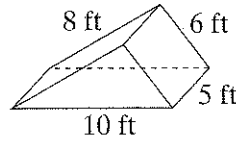
Surface Areas of Prisms

Draw a net for each prism.

1.

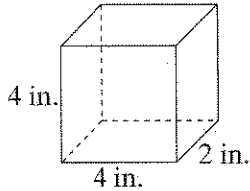


2.

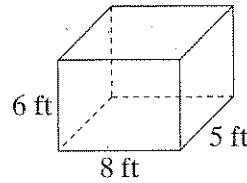


Find the surface area of each figure to the nearest whole number.

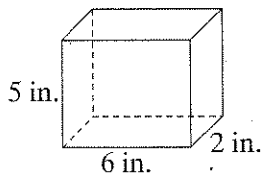
3.



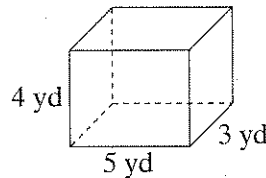
4.



5.

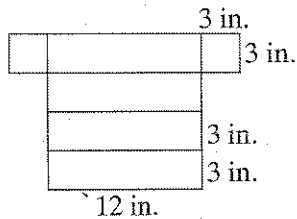


6.

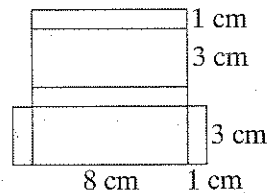


Find the surface area of the rectangular prism with the given net.

7.



8.

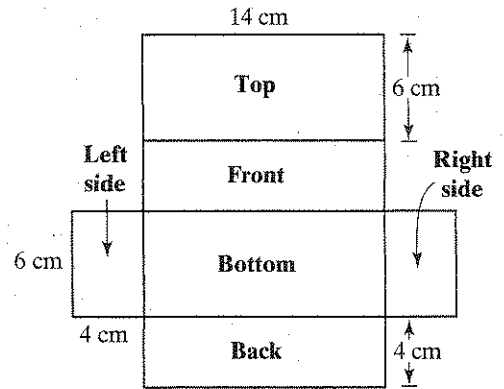
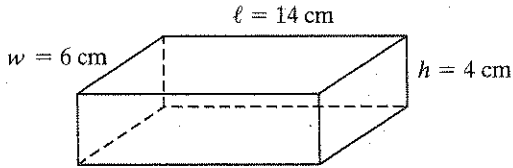


Reteaching 9-8

Surface Areas of Prisms

The *surface area* of a rectangular prism is the sum of the areas of the faces. You can use nets to find surface area.

Find the surface area of the prism.



area of top = area of bottom
 area of front = area of back
 area of right side = area of left side

- ① Find the area of the top.
 $A = \ell \times w$
 $= 14 \times 6$
 $= 84 \text{ cm}^2$
- ② Find the area of the front.
 $A = \ell \times h$
 $= 14 \times 4$
 $= 56 \text{ cm}^2$
- ③ Find the area of the right side.
 $A = w \times h$
 $= 6 \times 4$
 $= 24 \text{ cm}^2$
- ④ Add.
 $84 + 84 + 56 + 56 + 24 + 24 = 328$

The surface area of the prism is 328 square centimeters.

Find the surface area of each prism.

