

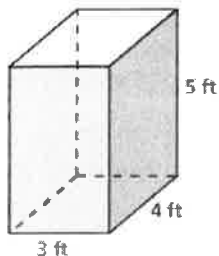
NAME: \_\_\_\_\_  
SURFACE & VOLUME

DATE: \_\_\_\_\_  
PERIOD: \_\_\_\_\_

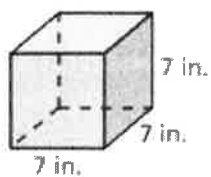
### Review

Find the surface area of the prism.

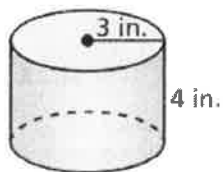
1.



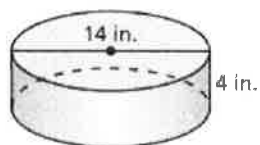
2.



3.

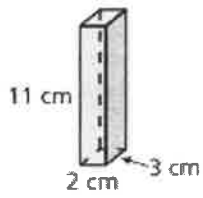


4.

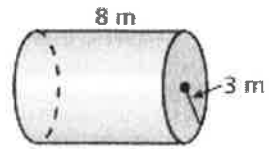


Find the volume of each prism.

5.



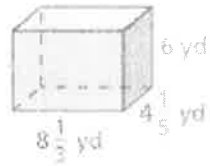
6.



7. The bag of popcorn has a volume of  $96 \text{ in}^3$ . Find the **height** of the bag.



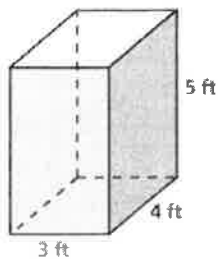
8.



### Review

Find the surface area of the prism. Round to the nearest tenth when necessary.

1.

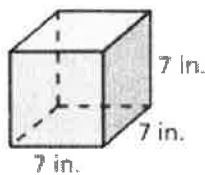


$$SA = 2(3)(4) + 2(3)(5) + 2(5)(4)$$

$$SA = 24 + 30 + 40$$

$$SA = 94 \text{ ft}^2$$

2.

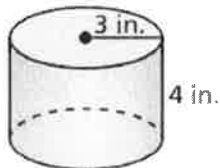


$$SA = 6(7)^2$$

$$SA = 6(49)$$

$$SA = 294 \text{ in}^2$$

3.



$$r = 3 \quad d = 6$$

$$SA = 2\pi(3)^2 + 2\pi(3)(4)$$

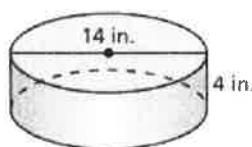
$$SA = 18\pi + 24\pi$$

$$SA = 42\pi$$

$$SA = 131.9 \text{ in}^2$$

$$SA = 2 \left( \begin{matrix} \text{Area} \\ \text{of} \\ \text{O} \end{matrix} \right) + \text{Circumference}(\text{Height})$$

4.



$$d = 14 \quad r = 7$$

$$SA = 2\pi(7)^2 + 2\pi(7)(4)$$

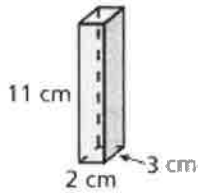
$$SA = 98\pi + 56\pi$$

$$SA = 154\pi$$

$$SA = 483.8 \text{ in}^2$$

Find the volume of each prism. Round to the nearest tenth if necessary.

5.



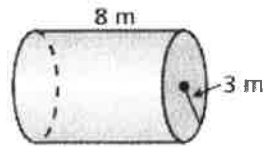
$$V = Bh$$

$$V = Lwh$$

$$V = 3(2)(11)$$

$$V = 66 \text{ cm}^3$$

6.

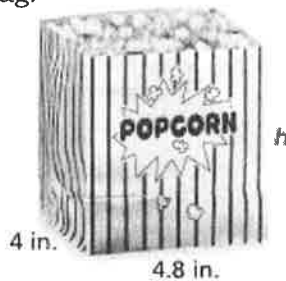


$$V = Bh$$

$$V = \pi(3)^2(8)$$

$$V = 226.2 \text{ m}^3$$

7. The bag of popcorn has a volume of  $96 \text{ in}^3$ . Find the **height** of the bag.



$$V = Bh$$

$$V = Lwh$$

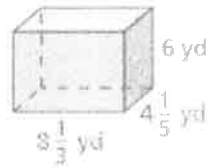
$$96 = 4(4.8)h$$

$$\frac{96}{19.2} = \frac{19.2h}{19.2}$$

$$5 = h$$

in

8.



$$V = Bh$$

$$V = Lwh$$

$$V = 8\frac{1}{3}(4\frac{1}{5})(6)$$

$$V = 210 \text{ yd}^3$$