

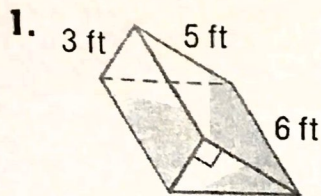
Int 1

HW 6-6

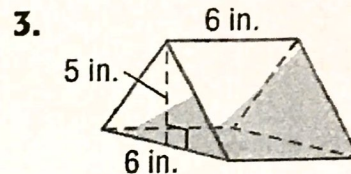
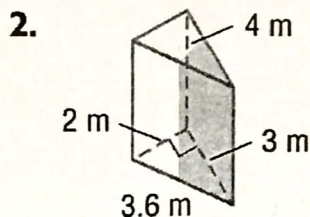
Volume

Unit 6

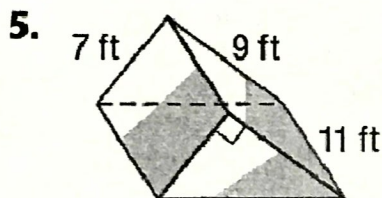
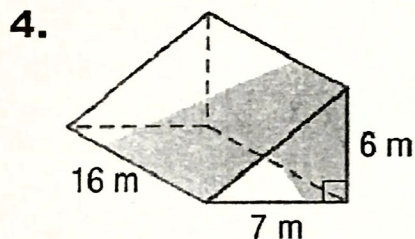
Instructions: Find the volume of each prism. Round your answers to the nearest tenth when necessary. Don't forget to label your answers with the appropriate measurements.



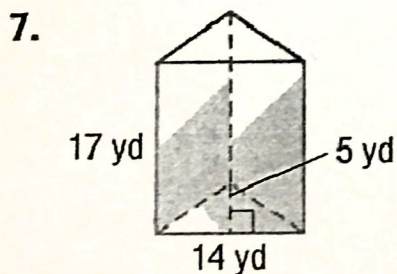
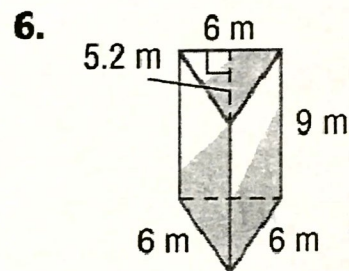
$$V = 45 \text{ ft}^3$$



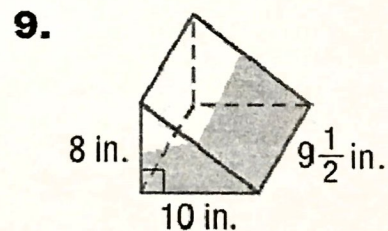
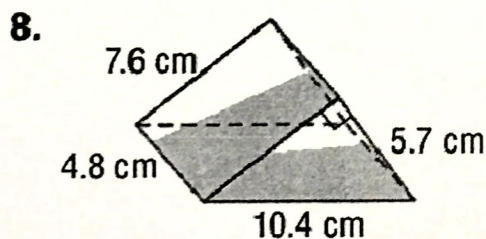
$$V = 90 \text{ in}^3$$



$$V = 346.5 \text{ ft}^3$$



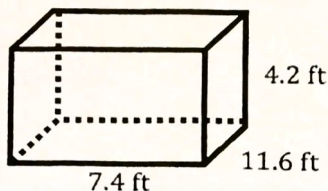
$$V = 595 \text{ yd}^3$$



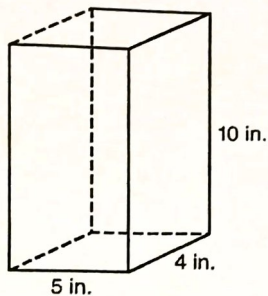
$$V = 380 \text{ in}^3$$

Instructions: Find the volume of each prism. Round your answers to the nearest tenth when necessary. Don't forget to label your answers with the appropriate measurements.

10.

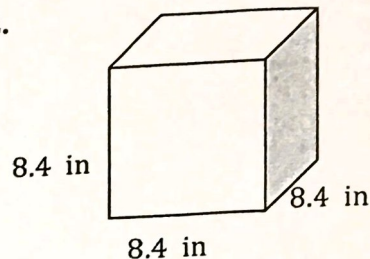


11.



$$V = 200 \text{ in}^3$$

12.



13. Rectangular prism: length of 6 yds; width of 5 yds; and height of 3 yds.

$$V = 90 \text{ yd}^3$$

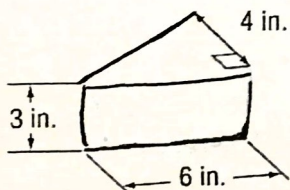
14. Rectangular prism: length of 16.5 mm; width of 8.4 mm; height of 32 mm

15. Cube: length of 6.2 ft

$$V = 238.328$$

$$238.3 \text{ ft}^3$$

16. Dirk has a triangular-shaped piece of cheesecake in his lunch. Find the volume of the piece of cheesecake.

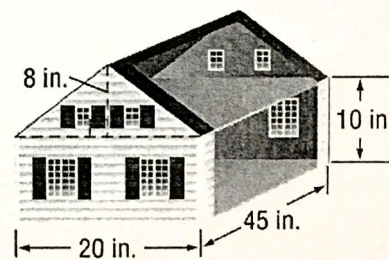


17. A wheelchair ramp is in the shape of a triangular prism. The base has an area of 37.4 square yards and the ramp as a height of 5 yards. Find the volume of the ramp.

$$V = 187 \text{ yd}^3$$

Darcy built the dollhouse shown below.

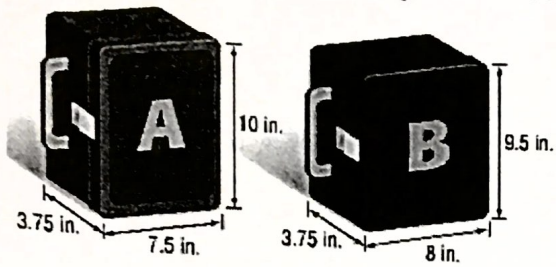
18. What is the volume of the first floor?



19. What is the volume of the attic space?

$$V = 3600 \text{ in}^3$$

20. Which lunchbox holds more? (Find the volume of each lunchbox)



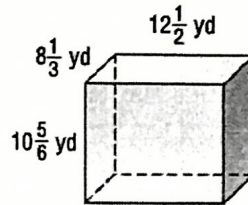
21. What is the surface area of the rectangular prism shown?

(A) $600\frac{1}{2} \text{ yd}^2$

(C) 662.7 yd^2

(B) 659.7 yd^2

(D) 700 yd^2



22. Which of the following expressions represents the surface area of a cube with side length w ?

(A) w^3

(B) $6w^2$

(C) $6w^3$

(D) $2w + 4w^2$

23. How much cardboard is needed to make the box shown?

(F) 37.5 ft^2

(G) 24.4 ft^2

(H) 8 ft^2

(I) 6.1 ft^2

