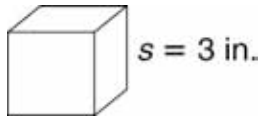


LESSON
10-7

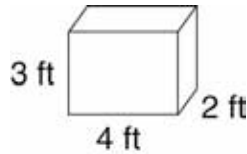
Practice A
Volume of Prisms

Find the volume of each rectangular prism.

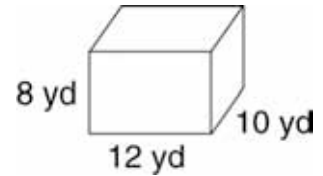
1.



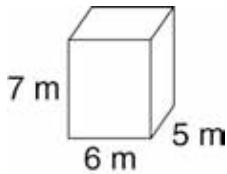
2.



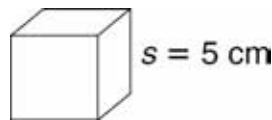
3.



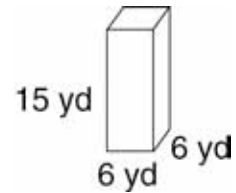
4.



5.

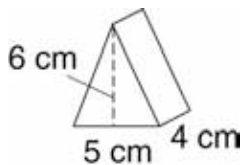


6.

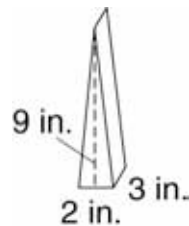


Find the volume of each triangular prism.

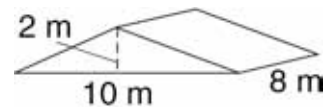
7.



8.



9.



10. A triangular prism and a rectangular prism have the same lengths, heights, and widths. Which prism has the greater volume?

11. Tim made a toy chest for his little sister's square building blocks. If 6 layers of blocks can fit in the box, and each layer has 15 blocks, how many building blocks can the toy chest hold in all?

4. 6 rectangles
5. Yes, It is a triangular pyramid.
6. Yes, A pyramid always has the same number of faces and vertices.
7. A
8. J
9. A
10. J

Reading Strategies

1. faces
2. triangles
3. polygons
4. one; two

Puzzles, Twisters & Teasers



LESSON 10-7

Practice A

1. $V = 27 \text{ in}^3$
2. $V = 24 \text{ ft}^3$
3. $V = 960 \text{ yd}^3$
4. $V = 210 \text{ m}^3$
5. $V = 125 \text{ cm}^3$
6. $V = 540 \text{ yd}^3$
7. $V = 60 \text{ cm}^3$
8. $V = 27 \text{ in}^3$
9. $V = 80 \text{ m}^3$
10. the rectangular prism
11. 90 building blocks

Practice B

1. 857.375 in^3
2. $1,800 \text{ ft}^3$
3. $6,800 \text{ yd}^3$
4. 231.556 m^3
5. 980 yd^3
6. $3,511.808 \text{ cm}^3$
7. 910 cm^3
8. 73.5 ft^3

9. $22,500 \text{ in}^3$
10. 15 ft^3
11. 144 cubic inches of wood

Practice C

1. $274 \frac{5}{8} \text{ in}^3$
2. 0.48 m^3
3. $98 \frac{9}{32} \text{ ft}^3$
4. $1,137.4425 \text{ cm}^3$
5. $17 \frac{119}{128} \text{ ft}^3$
6. 0.02275 m^3
7. 2 m
8. 9.5 ft
9. 12 yd
10. 10 in.
11. $1,600 \text{ ft}^3$
12. 42 ft^3

Review for Mastery

1. 16 square units
2. 30 square units
3. 16 square units
4. 15 square units

Challenge

- 5,760 in^3 ; about 25; koi goldfish
 2,970 in^3 ; about 13; clown loach
 1,170 in^3 ; about 5; redbtail shark
 1,600 in^3 ; about 7; angelfish

Problem Solving

1. about 586,491,840 ft^3 of concrete
2. about 1,110.375 ft^3 of black granite
3. 1.56 cm^3 of benitoite
4. 9.375 in^3 of bronze
5. D
6. H
7. B
8. J

Reading Strategies

1. 4 cubes
2. 3 cubes
3. 12 cubes
4. 4 cubes
5. 3 cubes
6. 12 cubes
7. 24 cubes
8. 24 cubic units