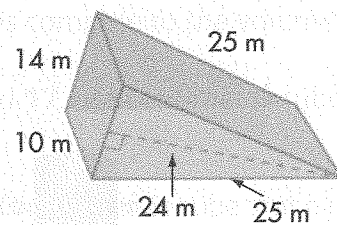1. Which of the following can be used to find the volume of a rectangular prism whose base area is 15 square inches and height is 4 inches? (18-3)

   A $V = 15 + 4$

   B $V = 15 \times 4 \times 4$

   C $V = 15 \times 4$

   D $V = \pi \times 15 \times 4$

2. What is the surface area of the triangular prism shown? (18-2)

   A 558 m²

   B 976 m²

   C 1,680 m²

   D 1,750 m²

3. A rectangular prism has a volume of 400 cubic feet. The length and width of the base are 5 feet and 10 feet. Which equation can be used to find h, the height of the prism, in feet? (18-3)
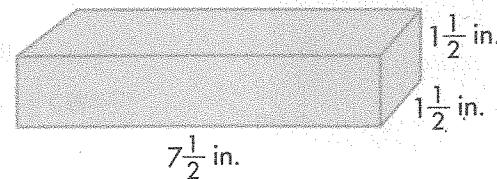
   A $400 = 50h$

   B $400 = 30h$

   C $400 = 25h$

   D $400 = 15h$

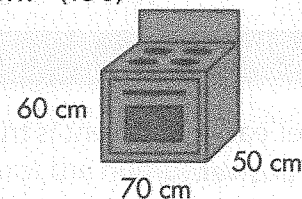4. A speaker is shown below. How many faces does it have? (18-1)

   A 4

   B 6

   C 8

   D 12

5. Which shows how to find the volume of this rectangular prism by filling it with $\frac{1}{2}$-inch cubes? (18-4)

   A $15 \times 3 \times 3 = 135; 135 \times \frac{1}{2} = 67\frac{1}{2}$ in³

   B $15 \times 3 \times 3 = 135; 135 \times \frac{1}{8} = 16\frac{7}{8}$ in³

   C $7\frac{1}{2} + 1\frac{1}{2} + 1\frac{1}{2} = 10\frac{1}{2}; 10\frac{1}{2} \times \frac{1}{2} = 5\frac{1}{4}$ in³

   D $22\frac{1}{2} \times 4\frac{1}{2} \times 4\frac{1}{2} = 455\frac{5}{8}; 455\frac{5}{8} \times \frac{1}{8}$
   $= 56\frac{7}{8}$ in³

6. What is the volume of the play oven shown? (18-3)

   A 3,500 cm³

   B 4,200 cm³

   C 7,200 cm³

   D 210,000 cm³

7. Find the missing measure of the height of the rectangular prism. (18-4)

   Volume: 383.04 m³
   Length: 10.5 m
   Width: 7.6 m
   Height: ▮

   A 3.9 m

   B 4.8 m

   C 5.1 m

   D 5.8 m

8. A rectangular box has a length equal to 12 inches, a width equal to 4 inches, and a height equal to 2 inches. Which of the following expressions can be used to find the surface area of the box? (18-2)
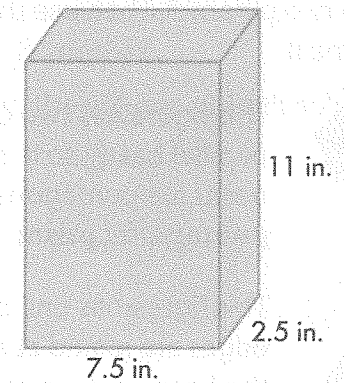
   A $2(48) + 2(8) + 2(24)$

   B $2(48) \times 2(8) \times 2(24)$

   C $48 + 8 + 24$

   D $48 \times 8 \times 24$

9. Some shipping boxes are stacked as shown. If the face of each box is a square and each box represents one cubic unit, what is the surface area of the figure formed by the shipping boxes? (18-5)
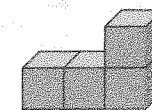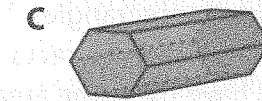
   A 14 square units

   B 17 square units

   C 18 square units

   D 24 square units

10. What is the volume of this rectangular prism? (18-4)

    A 165 in³

    B 192.5 in³

    C 206.25 in³

    D 215.75 in³

11. Which of the following does NOT represent a polyhedron? (18-1)

    A

    B

    C

    D

12. Which of the following best describes the shape of a baseball? (18-1)

    A cylinder

    B cone

    C prism

    D sphere