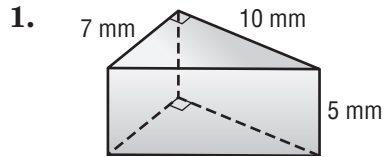


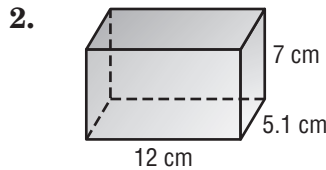
# Test, Form 2B

**For Exercises 1 and 2, find the volume of each figure. Round to the nearest tenth if necessary.**



- A.  $35 \text{ mm}^3$                       C.  $175 \text{ mm}^3$   
 B.  $125 \text{ mm}^3$                       D.  $350 \text{ mm}^3$

1.     **C**    



- F.  $428.4 \text{ cm}^3$                       H.  $42.8 \text{ cm}^3$   
 G.  $214.2 \text{ cm}^3$                       I.  $21.4 \text{ cm}^3$

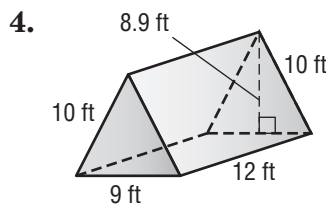
2.     **F**    

3. The lid of a jewelry box is in the shape of a triangular prism. The lid has a height of 12 inches. The triangular base of the lid has a base of  $8\frac{1}{2}$  inches and a height of  $4\frac{1}{2}$  inches. What is the volume of the lid to the nearest tenth?

- A.  $459.0 \text{ in}^3$                       C.  $75.0 \text{ in}^3$   
 B.  $229.5 \text{ in}^3$                       D.  $25.0 \text{ in}^3$

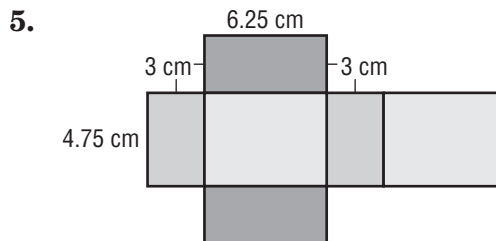
3.     **B**    

**For Exercises 4 and 5, find the surface area of each solid. Round to the nearest tenth if necessary.**



- F.  $49.9 \text{ ft}^2$       G.  $388.1 \text{ ft}^2$       H.  $428.1 \text{ ft}^2$       I.  $480.6 \text{ ft}^2$

4.     **H**    



- A.  $12.5 \text{ cm}^2$       B.  $89.1 \text{ cm}^2$       C.  $125.4 \text{ cm}^2$       D.  $250.8 \text{ cm}^2$

5.     **C**

# Test, Form 2B *(continued)*

6. Pat has four rectangular baking pans. Which of the pans has the greatest volume?

F. Pan A: 8 in. by 15 in. by  $1\frac{1}{2}$  in.

G. Pan B: 9 in. by 13 in. by 2 in.

H. Pan C: 8 in. by 8 in. by  $1\frac{1}{2}$  in.

I. Pan D: 11 in. by 14 in. by  $\frac{1}{2}$  in.

6.     **G**    

7. A room is 20 feet long, 18 feet wide, and 8 feet tall. If Keiko paints the walls and the ceiling, how much surface area will she cover?

A. 968 ft<sup>2</sup>

C. 1,184 ft<sup>2</sup>

B. 1,168 ft<sup>2</sup>

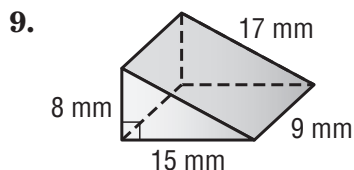
D. 1,328 ft<sup>2</sup>

7.     **A**    

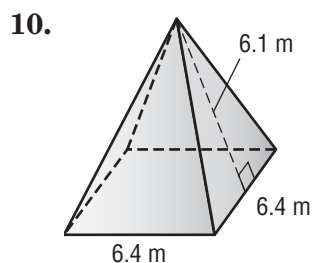
8. A rectangular prism has a volume of 810 cubic meters. It has a length of 10 meters and a width of 9 meters. What is the height of the prism?

8.     **9 m**    

**For Exercises 9 and 10, find the surface area of each figure. Round to the nearest tenth if necessary.**



9.     **480 mm<sup>2</sup>**    



10.     **119.0 m<sup>2</sup>**    

11. A rectangular prism has a length of  $2\frac{3}{4}$  feet, a width of  $4\frac{1}{2}$  feet, and a height of 6 inches. What is the volume of the prism in cubic inches?

11.     **10,692 in<sup>3</sup>**    

12. A pyramid has all sides that are equilateral triangles. Each triangle has side lengths of 11 centimeters. If the surface area of the pyramid is 330 square centimeters, what is the slant height of the pyramid?

12.     **9.5 cm**