Selected Response
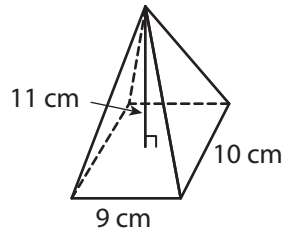
1. The dimensions of the pyramid are given in centimeters (cm). What is the volume of the pyramid?
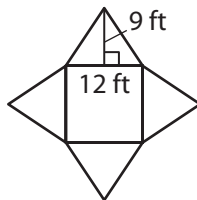
11 cm

10 cm

9 cm

- Ⓐ 222.5 cubic centimeters
- Ⓑ 330 cubic centimeters
- Ⓒ 445 cubic centimeters
- Ⓓ 990 cubic centimeters

2. The volume of a triangular pyramid is 437 cubic units. The height of the pyramid is 23 units. What is the area of the base of the pyramid?

- Ⓐ 6.3 square units
- Ⓒ 38 square units
- Ⓑ 19 square units
- Ⓓ 57 square units

Hot Tip! Make sure you look at all the answer choices before making your decision. Try substituting each answer choice into the problem if you are unsure of the answer.

3. What is the lateral surface area of the square pyramid whose net is shown?

9 ft

12 ft

- Ⓐ 216 square feet
- Ⓑ 388 square feet
- Ⓒ 568 square feet
- Ⓓ 776 square feet

4. A one-topping pizza costs $15.00. Each additional topping costs $1.25. Let x be the number of additional toppings. You have $20 to spend. Which equation can you solve to find the number of additional toppings you can get on your pizza?

- Ⓐ $15x + 1.25 = 20$
- Ⓑ $1.25x + 15 = 20$
- Ⓒ $15x - 1.25 = 20$
- Ⓓ $1.25x - 15 = 20$

5. A bank offers a home improvement loan with simple interest at an annual rate of 12%. J.T. borrows $14,000 over a period of 3 years. How much will he pay back altogether?

- Ⓐ $15,680
- Ⓑ $17,360
- Ⓒ $19,040
- Ⓓ $20,720

6. What is the volume of a triangular prism that is 75 centimeters long and that has a base with an area of 30 square centimeters?

- Ⓐ 2.5 cubic centimeters
- Ⓑ 750 cubic centimeters
- Ⓒ 1,125 cubic centimeters
- Ⓓ 2,250 cubic centimeters