Lesson Check (CC.6.G.2)

1. A kitchen sink is a rectangular prism with a length of $19 \frac{7}{8}$ inches, a width of $14 \frac{3}{4}$ inches, and height of 10 inches. Which of these is the best estimate of the sink's volume?

A 300 cubic inches
B 1,500 cubic inches
C 3,000 cubic inches
D 15,000 cubic inches

2. A storage container is a rectangular prism that is 65 centimeters long and 40 centimeters wide. The volume of the container is 62,400 cubic centimeters. What is the height of the container?

A 12 centimeters
B 24 centimeters
C 48 centimeters
D 78 centimeters


3. Carrie started at the southeast corner of Franklin Park, walked north 240 yards, turned and walked west 80 yards, and then turned and walked diagonally back to where she started. What is the area of the triangle enclosed by the path she walked? (Lesson 10.3)

A 320 square yards
B 4,800 square yards
C 9,600 square yards
D 19,200 square yards

4. The dimensions of a rectangular garage are 100 times the dimensions of a floor plan of the garage. The area of the floor plan is 8 square inches. What is the area of the garage? (Lesson 10.8)

A 400 square inches
B 800 square inches
C 6,400 square inches
D 80,000 square inches

5. Shiloh wants to create a paper-mâché box shaped like a rectangular prism. If the box will be 4 inches by 5 inches by 8 inches, how much paper does she need to cover the box? (Lesson 11.3)

A 184 square inches
B 160 square inches
C 92 square inches
D 34 square inches

6. A box is filled with 220 cubes with a side length of $\frac{1}{2}$ unit. What is the volume of the box in cubic units? (Lesson 11.5)

A $27 \frac{1}{2}$ cubic units
B $54 \frac{1}{2}$ cubic units
C 110 cubic units
D 440 cubic units