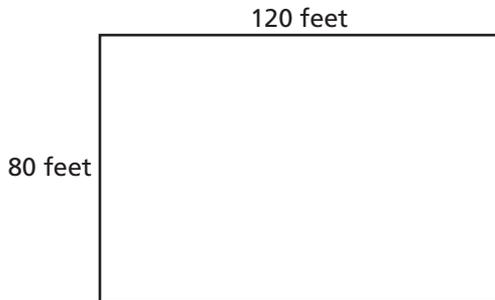


GRADE 10 **Focus on Sunshine State Standards: Benchmark Tests**
MA.912.G.8.3 Benchmark Pre-Test (Multiple Choice)

1. A storage tank contains 1,985 gallons of water. A technician opens a valve to drain it at 49 gallons per minute. After about how much time will the tank be empty?
 - A. 4 minutes
 - B. 40 minutes
 - C. 49 minutes
 - D. 1 hour and 4 minutes

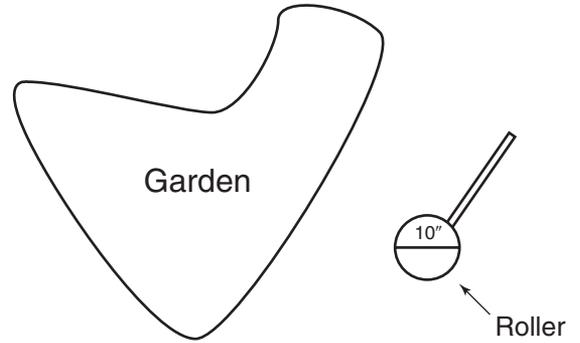
2. Rose wants to plant bushes along the perimeter of the backyard shown.



She wants to put a bush at each end of each side and make the plantings along each side 4 feet apart. It cost \$15.05 to buy and plant each bush. Rose quickly estimated the cost of the plantings. Which of the following is a reasonable estimate of the cost?

- F. \$750.00
- G. \$800.00
- H. \$1,500.00
- I. \$3,000.00

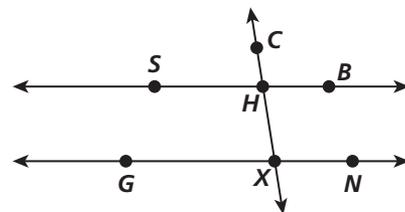
3. A landscaper wants to know how far it is around the garden shown below. To measure, the landscaper uses a roller as shown. The diameter of the roller is 10 inches.



If the roller goes around the boundary exactly once 46 times, what is the distance around the garden in inches?

- A. about $5 \times 3 \times 46$ inches
- B. about $5 \times 3 \times 23$ inches
- C. about $10 \times 3 \times 23$ inches
- D. about $10 \times 3 \times 46$ inches

4. In Magda's town, streets were laid out as shown. Streets \overleftrightarrow{SB} and \overleftrightarrow{GN} are parallel. In the diagram, the measure of $\angle CHS$ is about 81° .



What is the measure of $\angle CXG$?

- F. about 81°
- G. about 90°
- H. about 120°
- I. about 181°

GRADE 10 Focus on Sunshine State Standards: Benchmark Tests
10 MA.912.G.8.3 Benchmark Pre-Test (Multiple Choice)

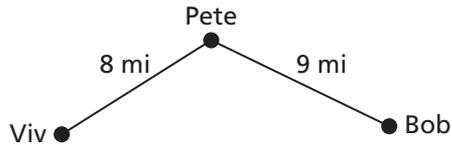
5. Scott bought a coat that regularly sells for \$270. It is discounted by 30% and there is no sales tax. He gives the clerk ten \$20.00 bills. How much money can he expect to receive in change?
- A. about \$250.00
 - B. about \$90.00
 - C. about \$10.00
 - D. about \$5.00

6. A parking lot is in the shape of a convex quadrilateral. One corner of the parking lot measures 90° . The other three interior angles are approximately equal. Which of the following is reasonable?



- F. The other three angles must be acute.
- G. The other three angles could measure 89° , 90° , and 91° .
- H. None of the other three angles can measure 90° .
- I. The other three angles must be obtuse.

7. Three friends, Viv, Pete, and Bob, live near one another. The diagram shows distances between two of them.



Which of the following could represent the distance in miles between where Viv lives and where Bob lives?

- A. -17 miles
 - B. 0.5 miles
 - C. 0.8 miles
 - D. 12.3 miles
8. A patio, Patio A, is in the shape of a triangle. It has a perimeter of 198 feet. It costs \$9.80 per foot to put a border around it. A second patio, Patio B, is in the shape of a triangle similar to Patio A. The ratio of the sides of Patio B to those of Patio A is 3 to 1.



What would it cost to put a border around Patio B?

- F. about \$6,000.00
- G. about \$2,000.00
- H. \$198.00
- I. \$9.80