

**Chapter
8**
Performance Task (continued)

Rubric

Finding the Area and Perimeter of a Track	Points
1. 102 m^2 ; 612 m^2	4 Total possible points 2 Points for each correct answer
2. 172.4 m ; 184.4 m	4 Total possible points 2 Points for each correct answer
3. about $10,388.27 \text{ m}^2$	2 Correct answer
4. about $13,425.43 \text{ m}^2$	2 Correct answer
5. about 444.44 m ; <i>Sample answer:</i> The semicircular ends of the track form a circle with a circumference of about 274.44 meters. So, the perimeter is about $85 + 85 + 274.44 = 444.44$ meters.	5 Thoughtful response that references calculations 3 Well-written response without reference to calculations 1 Poorly written response without reference to calculations
Mathematical Practices: Understand complex problems and show determination when solving them. Students will use formulas and strategic thinking to find the areas and perimeters of composite figures.	3 The student uses problem-solving skills, applies appropriate modeling, and correctly implements the results of the models. Award partial credit as needed.
Total Points	20 points