

Complete Performance Task Scoring Rubric *Designing a Package*

18-21 Proficient 16-17 Good 14-15 Satisfactory 12-13 Poor 0-11 Unsatisfactory

	Depth of Knowledge Level	Points	Total Possible Points for Task	Total Points Earned by Student
<p>Task 1:</p> <p>A. bh or $\pi \times r^2 \times h$</p> <p>B. $\frac{4}{3} \times \pi \times r^3$</p> <p>C. $2 \times \pi \times r^2 + \pi \times d \times h$</p> <p>D. $\frac{1}{3} \times \pi \times r^2 \times h$</p> <p>E. $2(lw + lh + wh)$</p> <p>F. Figure 1: $V = 785 \text{ cm}^3$ $SA = 471 \text{ cm}^2$</p> <p>Figure 2: $V = 27 \text{ cm}^3$ $SA = 54 \text{ cm}^2$</p>	1	1 1 1 1 1 1	7	
<p>Task 2:</p> <p>A. Check drawing: the diameter is 4 so the radius is 2, $h=8$</p> <p>B. $V = 33.5$ cubic inches</p> <p>C. Answers will vary. Possible Explanation: “The formula uses the radius, but only the diameter is given; therefore, first, cut the diameter in half and then, use the formula. Since the ice-cream is leveled off I only need to finish the answer by rounding to the nearest tenth.”</p>	2	1 1 2	4	

<p>However, this design would not work since Tommy wanted the golf balls to be in a single vertical row with a diameter of 1.75 inches. Also, the more golf balls in the container, the longer it gets making it more difficult to work in the vending machine. However, I figured out that Rabeesha can put two golf balls going across, back and up to make a container that holds 8 golf balls. Her container only needs to be 3.5 inches in length, width and height to hold the golf balls securely in place. There would be a row with 2 golf balls going across, back and up. A total of 8 golf balls in a 3.5 in cube. This amount has Tommy's count and Rabeesha's measures per requests."</p>				
TOTAL POINTS:				



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