Unit 9 Day 7 Homework 9-99, 9-103, 11-101, 11-114



**CL 9-99.** Find the volume and surface area of the prism at right if the base is a regular octagon with side length 14 mm and the height of the prism is 28 mm.



**CL 9-103.** After Myong's cylindrical birthday cake was sliced, she received the slice at right. If her birthday cake originally had a diameter of 14 inches and a height of 6 inches, find the volume of her slice of cake.

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**11-101.** **Multiple Choice:** Which of the following cannot be the measure of an exterior angle of a regular polygon?

1. 18°
2. 24°
3. 28°
4. 40°

**CL 11-114.** Talila is planning on giving her geometry teacher a gift. She has two containers to choose from:

* + A cylinder tube with diameter 6 inches and height 10 inches
	+ A rectangular box with dimensions 5 inches by 6 inches by 9 inches
	+ Assuming that her gift can fit in either box, which will require the least amount of wrapping paper?
	+ She plans to tie two loops of ribbon about the package as shown at right. Which package will require the least amount of ribbon? Ignore any ties or bows.