Name Date Time

STUDY LINK 11•7

Volume and Surface Area

Area of rectangle:
$A = l * w$

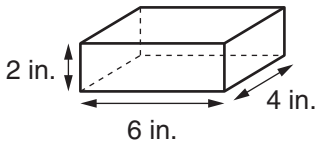
Volume of rectangular prism:
$V = l * w * h$

Circumference of circle:
$c = \pi * d$

Area of circle:
$A = \pi * r^2$

Volume of cylinder:
$V = \pi * r^2 * h$

1. Kesia wants to give her best friend a box of chocolates. Figure out the least number of square inches of wrapping paper Kesia needs to wrap the box. (To simplify the problem, assume that she will cover the box completely with no overlaps.)



Amount of paper needed: _____

Explain how you found the answer.

_____

_____

_____

2. Could Kesia use the same amount of wrapping paper to cover a box with a larger volume than the box in Problem 1? _____ Explain.

_____

_____

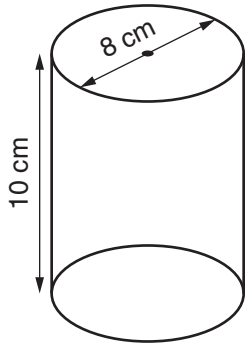
Find the volume and the surface area of the two figures in Problems 3 and 4.

3. Volume:

_____

Surface area:

_____



4. Volume:

_____

Surface area:

_____