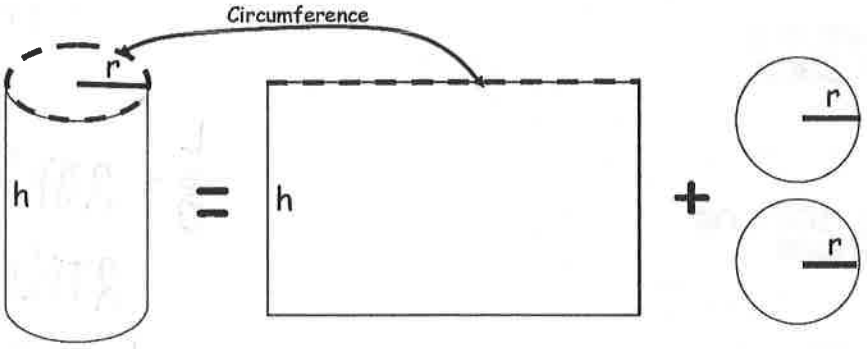
Surface Area of
Notes

Name_____
Date_____ Pd_____

lateral surface area area covering face, not base

total surface area lateral area with bases added



Step 1: name the shape

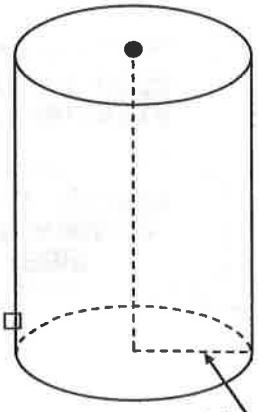
Step 2: shade & name the base

Step 3: total OR lateral

Step 4: choose your formula (write it in symbols)

Step 5: plug in numbers

Step 6: solve, answer with label



height of cylinder

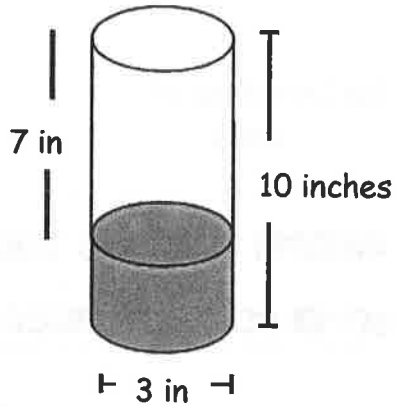
$S = 2\pi rh + 2\pi r^2$

circumference — area of base

$S = 2\pi(4)(12) + 2\pi(4^2)$

$= 402.12 \text{ in}^2$

Sarah is trying to determine a new size for the chip can. The original can is shown below. How much cardboard would be needed if she changed the size to the gray portion of the can?



Step 1: name the shape

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$L\!\!\!/\!\!\!/ = 2\pi r h$

$2\pi(1.5)(3)$

$= 28.27 in^2$