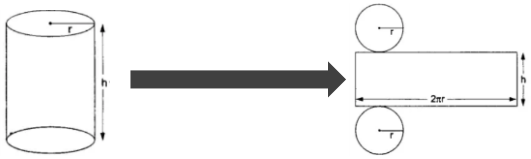
Wisdom Lane Middle School
Name:_____
Teacher: Mr. Tomeo

Homework #88

Date:_____
Period:_____

Surface Area

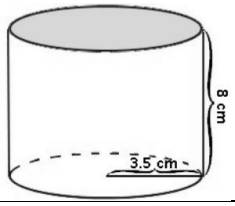
Cylinders



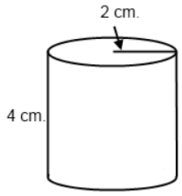
These pictures show how we can take apart the cylinder. It becomes two circles and a rectangle.

The **surface area** of a cylinder can be given by the formula $SA = 2\pi r^2 + 2\pi rh$ where *r* is the radius and *h* is the height.

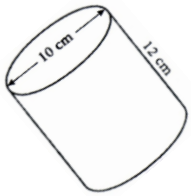
1. Find the surface area of the cylinder. ***Nearest 10th .***



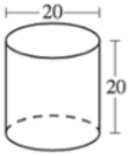
2. Find the surface area in terms of π. Shape is a cylinder.



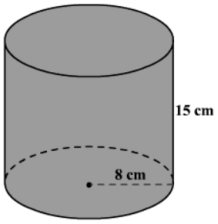
3. Find the surface area of the cylinder. ***Nearest 10th .***



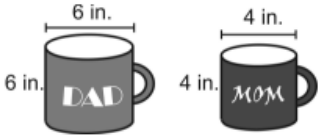
4. Find the surface area in terms of π. Shape is a cylinder.



5. Find the surface area of the cylinder. ***Nearest 10th .***



6. Leave out the handles and find the surface area of each mug in terms of π.

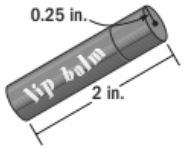


7. The diameter of the base of a cylinder is 12 cm and the height is 8 cm. Find the surface area of the solid cylinder.

8. Find the surface area of the can of paint.

nearest 10th

9. Find the surface area of the lip balm.



nearest 10th

10. Show all calculations before explaining.

Short Response Cylinder A has a radius of 2 meters and a height of 4 meters. Cylinder B has a radius of 4 meters and a height of 2 meters. Which cylinder has the greater surface area? Explain.