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Surface Area of a Cylinder

MathLinks 8, pages 182-187

Key Ideas Review

Choose from the following terms to complete #1.

- 3-D object
- add
- area
- circumference
- cylinder

- 1. Complete each statement.
 - a) To find the surface area of a cylinder, you

the

of each face of the object.

b) A net of a

is made up of three faces.

c) The rectangle in the net of a cylinder uses the circle as one dimension.

of the

Practice and Apply

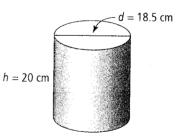
Sketch a net for this cylinder.



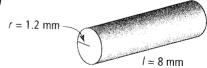
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3. Estimate the surface area for each cylinder.

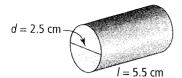
a)



b)



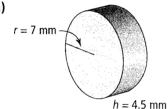
4. Calculate the surface area of this cylinder to the nearest hundredth of a square centimetre.



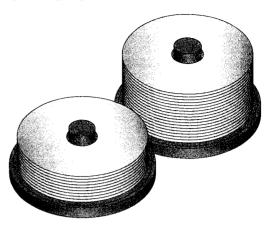
5. Use the following formula to find the surface area of each cylinder to the nearest hundredth of a square unit.

$$SA = (2 \times \pi \times r^2) + (\pi \times d \times h)$$

a)

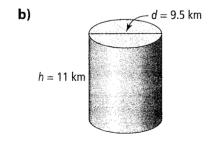


6. Recordable disks come in bulk packaging of various sizes.



A single compact disk has a diameter of 12 cm and a width of 0.1 cm.

a) Calculate the surface area of one compact disk to the nearest tenth of a centimetre squared.



b) Calculate the surface area of a bulk container that holds 50 compact disks. Explain your reasoning.